SELECT COMMITTEE

TRANSPORT

(IRISH SUB-COMMITTEE).

MINUTES OF EVIDENCE

APPENDICES THERETO

STATEMENTS ACCOMPANYING THE SECOND REPORT

IRISH SUB-COMMITTEE

Appointed by the Select Committee on Transport to Investigate and report upon the facilities for transport offered by

THE PORTS AND CANALS OF IRELAND.

To be purchased through any Bonbollor or directly from H.M., STATIONERY OFFICE At the Associate Synaptic Courts of the Court of the Cou



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Ordered, by The House of Commons, to be Printed, 6th November and 14th November, 1918

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ORDER OF REFERENCE.

Sir Arthur Shirley Benn, M.P., Chaurman

Colonel John Gretton, M.P. William Field, Ksq., M.P. Walter Hudson, Ksq., M.P. Matthew Keating, Esq., M.P. W. A. Lindsay, Esq., M.P. P. J. Hannon, Esq.

Ex-officio-H. WILSON-FOX, Esq., M.P. (Chairman of the Select Committee)

Mr. Philip MacNulty, Secretary.

TERMS OF REFERENCE.

The Sub-Committee was appointed by the Select Committee on Transport on 8th August 1918, with authority

To investigate and report upon the facilities for transport offered by the Ports and Canals of Ireland, to make suggestions for their equipment and development, and to visit such places as they may consider necessary for this purpose.

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SELECT COMMITTEE ON TRANSPORT

(IRISH SUB-COMMITTEE,

The Sub-Committee met at the Mansion House, Dublin, on Saturday, 7th September, 1918, to consider questions of procedure, etc. Sir ARTRUR SHILLER BENN, M.R., presided.

The Lord Mayor received the members of the Sub-Commistee, and welcomed them to the Mantice House. He expressed his good wisher for the success of their investigation of the very important matters of Fort development and improvement of the System of Inland Water Transport in Fealand, and hoped that the result would said materially to the welfare of the country.

MINUTES OF EVIDENCE

FIRST PUBLIC SITTING: MONDAY, 9th SEPTEMBER 1918, In the Oak Book, Markon House, Duelin, at 2 p.m.

MENERIS PERSENT

(blorael John Gretton, M.P.

Mr. William Field, M.P.

Mr. William Field, M.P.

Mr. W. A. Lindsay, M.P.

See ARTHUR SHIRLEY BENN, M.P., 1932 CHAIR.

Mr. M. A. Erros, Irah Member of the Development Commission, called in , and Examined.

Oliversus 1. Tokak ya see seenyi. Ne Kona, Okak a Salast tokak 1. Tokak ya see seenyi. Ne Kona, Okak a Salast tokak 1. T

movie—That is so, its.

2 If you would be good compile to do it we would
shall be good to g

the control of the Department of Agravitime, and these on the another in congested such as a relative time of the control of the control of the conspipotimes from both holdes, and at the first place when the control of the control of the conposition of the control of the control of the greater Department of Agravitimes extendgented Department September 1, and allow with paid and the control paid of the control of the conposition of the control of the control of the delibble document of them and an another than the delibble document of the control of the control force of the control of the delibble document of the control of the Office of the control of the control of the part of the control of the control of the part of the control of the control of the part of the control of

magoni.
Mr Lindsoy | Where about is Halvick!
Mr Houses | At the court of the Bay

Witness Reignagon in the engined fichery piece and the engined loss was to improve Entityraginal, and the engined loss was to improve Entityraginal, and the engine engine engine the single a new poor at Reightle, shadt has to be corrected with failed from the Development Commission of the engine engine

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Chairmon—continued.
hat at the same time it is not absolutely ruled
that a large bridge might not be undertaken in

you, not at the same time it a not accentably man out that a large bridge might not he undertaken in the control of the control of the control of the turbate \$1,000 for the purpose of improving transpect between Helenia and Dungarran, and we have also held in reserve as unexpended balance of our grants to the Department in view of the possibility of hating, to reake a statil increase in the great for the control of the c

Chairmon.

3 What will that per he used for—what seet of boats—For what I may call m-shore fisheries, or for the smaller type of boats.

the smaller type of best.

the stable type of best of relater 1-01 stable in wait probably to car of section 1-01 stable in wait probably to car of section 1-01 stable in wait probably to car of section 1-01 stable in the section 1-01 st

much produced and make the "The Market State of the Control of the

comparement of the 19.00 cents from a contaction with this element .-Prom the Control, Outstall, and the best rathey made some contribution. It has been a great ascess. The Congreted Dotters Band information and the contribution of the second property of the Editors of the Editors, outside the Editors for these states in Ballancow, outside the Editors for these contributions, outside the Editors for the Congrete and the Editors of the Congrete and the Editors of the Congrete and the Editors of th

7 Is that contribution to the improvement of the harbour at Valentia subject to any local contribution to —Yas. The halance of the money is being provided. The estimate of the Corganical Districts Board in \$20,000 Chermans—continued.

Mr. Neak, General Manager, Greet Southern and Western Beilway Outspany J My minemation, Mr. Bann, in that it would out many double that, Witheau, The Computed Datricts Beard miner me that the exhibit

Chairman.

8 When was the estimate made, Mr. Emis t—It was an estimate made within the past six or eight mouths, out it was only a provisional estimate.

Mr. Nesk] That is not for a pier.

Without] It is for the extension of landing facilities for the fish.

Chairman.

Characterist Was a Characterist Was a live of the Characterist Was with which with a live of the Characterist Was with a live of the Char

made there was labour trouble in Dublin and it seemed very desirable that there should be an alternative route 10. What is the draught of water at Drogheda !— Not more than 12 to 15 feet.

Mr. Leadary.

11. At low water—High wher spring tide. It is a fall jest. It is seen thing line Wesfield.

22. When you spoke of the Drephest Commissions.

23. When you spoke of the Drephest Commissions are considered to the spring of the sp

The defet is noticed for the berthage of stonares of considerable turnings, which if the house of the considerable turnings, which if the house of the considerable turnings, which is that considerable we had association for the considerable with the considerable with the considerable consid

Inking to become responsess or the large-man wasthe var levids out and things came to as end for the time being. Thus is evidently a desirable scheme. Chairman.

13. In this for diviging 1—No, it is a recky channel. It would one about 260,000 to do the job.

rill

14 What was the amount of the contemplated learthe in Galway 1-000,000.

the in Galway 1- 200,000 Chairman.

15 Brices you pass from that, what amount of mone is here you at your disposed, or can you get at your disposed, for improvements 1- At the present memorial.

[Continued.

Chairson-continued. 16. Yes!—Our original great from Parliament was made for a period of two years. These grants to the labory hatbours were similarly made by us to cover

nort the memoy is still beld, and we should have been

got the memory is still bedt, and we should have been half through another million pounds were it not that harps sums were yet unexpended. So far as the money that is actually in the Development Fund goes, we have recally one million pramis left out of three million. Mr Field.

IT Is that available just now!-Yes, but the Treasury won't allow it to be expended.

 You have a million pounds unallocated t—No; a large portion has been provisionally allocated to 10, How much to not allocated, roughly—half a million—Yea, or perhaps \$500,000 oy \$700,000. 20 The next point is inlated transportation?—In that one I was going to make a comparison as between the cast. I was going to make a composition as between the value of the anti-servors, the washressy service and access service. If these does not comes which year term of preference I tail may be course, deal with it, as to the means of transportation and as to how that means may be imposed I—II that care I may say brudy that I was asked, sheetly after the var started, and regard to the development of the Londerton. fields, my opinion in reference to a scheme of motor heas, my opinion in restriction against it. We had made extensive sugmines in England as to the relative cost of motor transport as agrees light molways, and

we was forced to the conclusion that railways were your suitable than motor service. We were advised ance sittance man motor severe. We were advised that the uploop of reads for motor tenseptet in York-shire would be \$500 per suite pur year. In the case of linds reads—of which I have had experience, as I was Charman of the Irish County Compill rection of the Bool Omgress—I don't believe you could just on a Councils would not be nedmed to great, and I think you are driven to high railways. The narrow gauge Councils would not be medited to great, and I time, you are driven to hight railways. The narrow gauge would be absolutely unders in connection with the development of the Lenster coel-fields. If you are to handle coal commercially you should put it into your waggers and distribute it without may re-handling. We weggens and distribute it without may re-similiting. We took up the scheme for the development of these arms by railray. I won't take up your time by going into the scheme. In this matter the Irish Centur Oussie should have the same power as Rajtish County Coun-cia possess. Mr. Birrell, whon he was Chief Secretary, cia possess. Mr. Birredt, when he was Cine! Secontary, precused me that he would pear a short Bill through Parliament providing Irush County Countain with scudar powers for the construction of light railways. I was engaged in drafting the Bill, but he went out of che, and the Government are new constructing them selves two lines of rathway as a war measure.

23 What conget—It is the normal gange.

Mr Lindson

23 The standard gange !- Yes Mr Field

24 Does your objection, Mr Ennis, to the motor between the pay or large undesce or to several between the pay or largeau and the nearest railway states — Coal and fish eye quite different One is been goods, and the other is of a different type St. I want your common as to whether you would 25. I want your opinion as to whether you would approve a motor service for fish under certain invest-

34 We would be gird to hear evidence from you, Str John, in connection with our Terms of Reference, which, I deressy, you have seen?—I am sireld I must apploins for appearing before you, boossis I only get word yesterday that you desired to see me, and I have come botally supropared for this inquiry. 0.178

Mr. Field-continued able circumstances from harbours to the nearest rail-way station I.—Yes. I was speaking of the haulage of heavy traffic like coal

26. In Yorkshire they were going to have the English standard gauge for the railways 1—I shank so. Narrow gauge railways in Ireland for coal development are

ractically necless 27 Where are these two lines of radiway that yo 27 Where are those two lines of railway that you say the Government are constructing an a war measured. They are to run from Casilcenser, close to Bully-rayer, at one only, and on the other each from Wolfmit to Athy. There is a shart section between the iro of along three miles, whosh would be a very expension that of line 50 miles. It is a rowly hill. It would be to see the construction of the contract of the

very expensive With regard to the waterway age-tion. I varied the Arigno coal-field, and in segant to that I would like to suggest running the raffway to a point on the castal at a little place called Blackrock. yount on the casa) at a little place called Blackcook. This would make the coast system a greeting means of developing the coaldedds of Argan. It seems to me that the suppress of heroiging the coal to their gones would be britising indeed. There was a proposal for a line of callway which greatefully linked up the All Red crops at Galleony. It would a very expensive line to

28. In Blackwork on the canal î-Yes

29 There is some railroad development there now? There have been reveral schemes of development. I have been reveral schemes of development. I have called attention to the possibility of utilizing the canal for coal tramport from these names. If there

30. Is it the principle of the Board to which you boling, Mr. Emis, that a contribution should be given by the local authorities before the work is commerced?

by the local amboritor before the work is commercially the local amboritory essential, but it is, I think, a very useful general rule to have local co-operation. We like to see the public interesting itself in the —crited of hiving a harmful guarantee socialed on the county and making the county pay 5 per cent, on the capital, we were of opinion that the County Council should become the understown and some debuttures. If the locality and the people in it has sufficient helief in the sourceman of the understalling they should be asked to growade half the countail and the Development Event to first this order—5 keV. Find to find the other half.

31 De I unicested that the Deepheda husiness to which you refer is abandoned !—I don't know the result

of the negotiations between the Drogheda people and Mr. Hanson,

Mr. Housen.

36 The proportion in that the latel people shruld find half the outstall—I have not made this proposition. We know, as makes of his to connection with the controller with the proposition of the controller with the other half.

35 How the Communication of the provide from the first of the controller with the other half.

36 How the Communication of the first half of the controller with the other half.

37 How the Communication of the first half of the first half of the controller with the other half.

38 How the Communication of the first half of the f in a position to carry out the scheme they suggest

Sir Jone Pensen Gerryren, M. S. S., M. 188980.2., called in; and Examined Chairson-continued

35. I don't suppose anyone would expect that you would be unprepared in regard to a subject on which you are such a well-known nathority. The subject is so wide that raises I know the lines on which you with me to proceed I should feel very difficult in

26. Our

9 September 1918.1 Sir J. GRIPPITE

36. Our daty is to unvestimate and report upon

constructed by different Diportaneotis of the State at this country. Some rew constructed by the Bound of Works, this Diportaneoti of Agraculture has a say in some of them, and the Ongosted Dismirist Bourd in others. Tota Constmitt on, if universitated, going power, and, I am afried, you will see a number than power, and, I am afried, you will see a number than are perchangly assless. Most of them, as far as my experience good, has been constructed for fundaming the bilang ministry. Now that is a very sauful from-tion, and it has officiarised a claim of cognition mould tion, and it has colivrated a class of capable men all around the conti-tieue, good seament, but whose appearons do not permit them to embasic on despaces, fishing which is followed by the Frence, Scotiani, and English fishing companies. We have the Aber-deen, Fleetwood and Gransby boots fishing in these widers, and yet we are not able to deal with this class

of fishery.

37. Are there many of the places that have been make for in-stone followines that could be utilized for deep-san fishermen 1-1 cannot say that definitely, but handly any of the fisherman you need go on the deep-san fishermen shows engaged on the outset hand. I disressly you are sequented with first on the Neelh-East Count. You see a large number of those Neelh-East Count. You see a large number of those in the disconnection of the process of the con-trol the above of developing a very figure train, and with the above of developing a very figure to the development there is regard that to the energy of the development of the control to the control to the temperature of the control to the control to the hardon foot a change of the control to the hardon foot a change of the control to the hardon foot a change of the control to the hardon foot a change of the control to the hardon foot a change of the control to the control that the control to the control to the control to the hardon foot and the control to the control to the hardon foot and the control to the control to the hardon foot and the control to the control to the hardon foot and the control to the contr

"Me Cover Allections on the consecution of the Cover Allection of th markets, and it is now one of the first examples we

that anything was down towards equipping the port for the rapid discharge of large vessels, encept by private

Mr. Keating 41 Yee say the port was not equipped—what was Mr. Kesting-continued, the cause of that?-It is difficult to answer than character. The development of the equipment of

character. The divelopment of the equipment of British ports had not kept pace with the Continental pris. 42 that is the reason that Dublin is not so well as Belfost—is there my difficulty in the way but so no difficulty. I find Dublin is as well compred. Belfast was behind time until the lost thirty pairs

My. Front 43 As it your view that the Irse's ports, as a rule, 43 at it your year out the line pass, as a said, are very much behind, in the matter of equipment, Continental ports, such as Hamburg, for the leading said unleading of ships — We have improved lately. yours age, was equipped in such a way as to conside it to discharge the greatest branages per limed bort of the discharge the greatest branages per limed bort of the state of

idny, it goes into the whole matter 44 We read it and thoroughly approximated att-feit so strongly about this maker that when I was in the service of the Port Board I was instrumented in getting them to meek yowers from Enricanant to secure this equipment. The port had not the Parliamentary power, until 1998, to erack a power-sisten for the supply of electricity for its own crises. I should not

certain borths was allocited by the Board is con-parising, and these companies pair as their own partial principles of the second principles of the con-parising of the control of the control of the Western Easiery Company had got up their typinals came year before the part antiches go tip their typinals of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-Mr. Field 45. How long ago is that ?-It must be 30 years ago Mr Lindson.

45 In 1993 you said that the Port of Dublin got

40 as three year and then the same of Allies age.

47. That is 16 years ago; what has been done in the
art. That is 16 years ago; what has been done in the
measurement. We got an electric power station. The
Corporation of the time was not able to supply as with
correct. We delayed to see if they could do so, but they decided that they were not in a position to supply us. We then went on with our most power station.

us We then well on with our subsit power station.

48. You have a certain number of shortro ornaes in
the port!—Xes, about 16.

49. Are they capable of handling a big weight!—
Most of those sencted were 5-ten cranes and one a 100lon orane for heavy traffic. That was built in Germany.

My Kenteng 50 Would you be disposed to make any suggestion for increasing the tends into Dublin Port—is it doing as large a tends as Dublin is establed to; and, if not, dine something tester man we have done. One or our quays has no railway communication. The whole of the South Quay has got no railway facilities, and that

"The Twenty-fourth "James Forest" Lectured at the Ivatration of Civil Engineers, Looks on the 24th Oriches, 1978, by Sir John Purser Griffith.

Sir J. GRIDGITH 9 Scotember 1918.] Mr. Kestong-continued.

gaices it a purely local gusy, because everything has got to be carried. The Northern Quays are tolerably well connected with realways. We have a very large cross-thaund trade, but our jurgen trade is much

51. Would you suggest that the South Quay cought to be connected with the realways as soon as youshle?—I way very demone that it should be I'll as difficult thing to do, I great you. The last scheme that I had in my maid-was a teamspecton bridge for taking. had in my mind was a transporter bridge by taking the wagons across the river. Transporter bridges are in use on the Continuos. There are a couple in Eng-

lasd St. Would you prefer the South Quay to be con-social with the ruleway?—Yes, I should like to see the 53 Would you profer it !- It would be better. It would make it a more useful quay.

54 Have you any suggestion about connecting up with the railway b-I never reported to my Board-the Port and Docks Board-fully on the matter, and I should difficult to manage

Mr Field 55 If the radway companies were under unded management is it year opinion were under analed management is it year opinion that it could be done without a greek deal of difficulty b-Certainly; it means a good deal of meney.

Mr. Lucieca

56. It would be expensive?—Yes.
NV. Would you connect with the loop line?—My own
yes was to connect with the Midland Great Western Relway by a transporter bridge 58. I am speaking of direct connection f—You would have to go been'd by the leep time. 39 It would be extremely expensive f—You, these would be expensive property to yurchase.

60 What draft of water have you at the port 5—The deepest borths are 26 feet at low water.

61. At spring tide?—Yes. They are open quays. The Cautorn House decks have not been improved.

63 Who is in change of them !—The Port Board. 63 And they have not been improved !—No. They

Mr. Pield. 64. The water is too shallow there?—The docks are perfectly antiquated. They would have to be entirely

Mr. Kestma 65. Do you think it would be in the interest of the country if this 8th-Committee would take the respon-sibility of making some suggestion to Patliament to compel the authorities of the port to improve all.

66. I am afraid that is hardly a question Sir John oil maney, (To Witsen) Suppose, for argument's site, that there was a port on the western count for the Data fram sarry acts 1 — The alle 1 reconscreases was below the Alexandran basin. At the first the All-Red Route was grader consideration the engineers came to see and I bulk then cancelly the properties I through about feasible. It is perfectly workashe from the estates and of the Beauty's property.

67 You would not advise them to go to Kingstown? -I don't think Kingstown is advanable 68. I agree. You want plenty of room 1.—You

cerymeed it could be. My Luxdian

73. The present harbour would be perfectly uselous? as The most feasible site is at Salt Island. Yes. The most densible size as at Saitt Island.
To Engineer come definitely to ask year opinion about Dillow come densible in on about the matter.
To This has no an Bellat and they teld no that their forms were to be 12 knot boats.—They would be

no man-ter distinct and a short has it has weak a Washie into the distinct a short has it have was a Washie into a wand be altegether too also H-Tax, altegether. T. Has Dahlin, as a harbor, ever residued State austiness as all H-Set since the day of the Irval but the state of the Irval Parkensian and the Irval 18 Yea got polying states the United I-Na 30. F. Feld. I it is to rational by get arything.

Columbi Orietius

The What prospects are there, Ser John, of developing the Peer of Dablin, 1—50y own conviction is that as runs, if you give facilities, trude follows. I have adden seen the reserve. A great deal of our trude that at present you foreign has to go across the Chainsel, so be slagged.

All it was been presented to dearlaw. Colonel Gyetten

comment to see stapped.

30. If you had a free hand to develop the port, you would expect to develop the foreign trade T—Yea.

31. Would than to a Kunppoon trade I—Yea, and over-see. We had stakes a good Europeas trade, before the war, with Rotterdam, antwerp and Hamburg

#2 Was that both anyonds and outwards?-Yes

35. You seem to have very four railway accurrenta-tion in Dablim—The railway connections with the north sale are good, not an good insequently as if a railway company owned the port, because the postal and rein-way arrangements were not made to fit thangs into each other organally

84. That would apply to all big places !- The railway company owns Ficetwood and Haysham, and the rail-way and harbour layout were designed at the sums 35 Tako Lawrpool !-- Its rudway connections with

35 Take Laverpool — In valvay consections with the decis see by selectly company in charge of Glas-56 Three is no reslevey company series Belfast — No-827. And no embray company series Belfast — No-821. If you per Dallium in the same class as by towns you will first that the places that own rankings see analy.— The places that own rankings are

89 You could not expect an old place tike Dublim to be owned by mulway composites —I don't say that I only want to point out that unity of policy between

90 Have you not the same incidities in Dahlin as in corresponding ports in the United Kingdom 1—I am not sure of that. I count speak with anthority, but during

paries were extremely pleasant.

21. It is their interest — It ought to be their interest. Mr. Hannin

93 The sensual scheme for the dessispment of thus ountry supposes a seleme of economic development which includes both industries and agriculture?—Yes which includes both measures and agreements—Lee 35. Do joo think thist there is an opportunity in this country, if a generies scheme of port development is understand by the Government, of strengthening the communic condition of Ireland I—I do.

Mr. Honox-continued.

94. Bo was think that there is a friendly attitude by

\$6. I notice that you recoved an admirable brockure. with a decire to clear my own mind on two or three points on which my opinion waveved, and in that way I have consolidated my sless.

ounts on which my opinion waver-u, was in which have comodistated my afters.

95 What I would like to get at is this—in your judgment, if the port, no matter where, is taken se the p Coust of Ireland, would it be in the direct interest of Ireland?—It would be of the greatest interest to Ireland, and in my opinion the difficulties of transshipment would be materially reduced if we were able to develop trum ferzies. We have, of course, to ment the fact that you are constructing a great opposition to some of the lag English parts.

W. In monacing of

97 In suggesting the development of a West of Ireland yort, here you considered that suggested development in conjunction with the cross-Channel development in conjunction with the accompanies ferry f-Yes; it has always been in my mind that the team ferry should follow. Of course, a great many 98 What was your idea about the gaugest—It is a difficult problem. It is a matter of very considerable

dispute whether to cheape the begans or to have double wheels or a third rail. The special difficulty in Ireland is the small difference between the gauge Mr Lindsay. 40 Is a third ruly feasible!—Yes, except at the cents and crossings. However, I don't give up the

Mr. Hanson 100 Have you considered the question of herbest

helping as considerably !-- I shall be very happy to do hat I can Mr. Kenting | We all consider, Sir John, that such a

Mr. Field 1 I should like to support Mr. Hannen's suggestion (Roleman) Sir John has agreed to do it.

100 You believe, Sir John, that if our methods of transport were improved in Ireland we would have transport were improved in Ireland we would have better consume results at home, and we would benefit England as well—Tex. 103. With regard to the rathway question, of course, we cannot go rate that. It is more or less a question for the engineers and the rathways, but I think you englis to ded with it in the statement you are sending 104 Is it your orsmen that the carels and the rail. ways are working together at the present time for the public bonefit !-- I would like to arover that by saying that they ought to work together for the public benefit. Is it your opinion that they are utilised as they

would be if there was proper management? Cholesson I I don't know that he should answer that Mr Lindson 166 When you were on the Boyal Commission were you miker impressed by the fact that in the agricul-tural parts of England canals were run at a loss, if not left absolutely develot?—Yee, there is no doubt Mr. Lundson-continuod

107. You are dealing here very much with an agrand-108 And do you think in view of your experience on the Royal Commission that you are going to make carnis in agricultural countries that will pay to 1 death

think it is proposed to make any, but to atilise anising ones. I think there is a very great future in Ire-land for them with regard to agriculture. 109 Take the Royal Canal I—Yes. You know its 110 But it is in reasonable working order, Ser John 1—It is, but it was built out of pure spite, in opposition to the Grand Canal, and it is owned by a railway con-

pany whose main lime runs on its banks.

111 Is it one that could be used properly t—We raported specially on that, and I cannot improve on the words of the report

113 Teks another canal, the Ulster Canal, which a

113 Tales another canal, the Uniter Canal, which is run at a lose 1-That sho is very fully reported on 115 Generally, you thank comis very fully reported on 115 Generally, you thank comis very developed pay "The General Canal is paying, and could be further developed callered goods"—Their month we shall be very month provided for canal loss for the very purpose 115 What short provide a paying the 115 What short provide a p 116 No arricultural produce went by canal in

hittle
117 Do you think the war is going to change that?
—More land has gone into cultivation.
118 Would it not go by realway as before if the
railways could accommendate tit—A great deal of that rainways could accommodate to the determination to char turned on traffic rates and the determination to char up canala by some of the malways in England

119 In your powerful paraphies, published in March last, you wrote very declardly in farour of one port on the West Coast. Have you formed any other commit since!—My learnings are entirely as anyone and they Bay if the breakwaters are constructed, and they ought to be constructed. Killery is like a Newequan food It is a magnificent harbour. It is, however, away from everybody, and its entrance difficult and

Mr Zendsov,

121. There is one punt about the teampatlantic port which has never been suggested, that if there was a post in the West of Iroland, the goods should come over the Irish lines!—Only for the express pared

192 But the ordinary goods traffic was sever sug-pested to be taken over the Irish lines !-- The ordinary rump steamer would centime to come in to the port to which its cargo was consigned

153. Do you think thus boots that run belween New York and Galway should tirm round at Galway and go back !—Yes, the high-speed mail boot that carried passengers and high-class goods, or what is known in passengers the superson of the season frog hts, would return 128. And the high-class goods would be discharged at Galway and sent through Ireland 1—Yes. If you have not to break balk I see no reason against it.

Mr. Lindsey. 125 De yez think shew would be rafficient greds to werrant itse freight-1-5 or.

126 as far as Blocked Bay was concerned t-All 126 as far as Blocked Bay was concerned t-All 127. These beats were not to deal with goods i-With proced Leaffe. That is governed to an escensor of the 122 Bas that is not goods t-Mile as we undersaid it is would be purely presenged train training. Sir J. GRIFFITH.

Mr. Lindsey-continued.

is known as express freight forms a very valuable item as regards the American trade, I am 1636 228. Not so far as the Brish-American tendo is con-creted—at least neb before the war — No. My. Kepting

130 Do you think the cost of changing the going You mean altering the Irah into the English gauge? You mean attering upe from most one segme scale.

Sil Yes I—I should be very corry for the take of
the Irish rolling stock that it should be aftered, but I
do not see the difficulty of providing a fined wall
132. The cost would not be probabilities—I den's

Mr Honnon

155 You would have great difficulty at stations?— The points and crossings at the stations are the

1M. You mentioned some time ago that the deep-een islesty trade might be developed in Ireland b—You the Have you got any suggestion in your mind as what the Government could do to develop that !serves the fisheries should be taken into account. A

My. Keating-continued deep-water harbour suitable for the best class of fishing steamers should be provided. 1350 And that one harbour would provide for the whole of the West of Ireland !—Certarsky it would.

Mr. Field. 187. Do you think that would meet your idea of the deep-sea fishing to concentrate it in Galway !-- That is my oniman. If there was a fellow harbour it would allow industries to grow up around it.

133. Do you think dradging would clear mind?—Their
is in regard to small karbours. That is a subject that I have pressed very muon from time to the farest Departments—the desirability of berfig able to maintain these small berbours around the coast. In the Arblew Harbour on the east, for

mannous mass small bettones around the coast. In the case of the Arkley Hurbour on the east, for implance, it was constructed by the Board of Works, Department of Agraculture maintains the entrance 139. There is only the one dredger suitable its the

140 The Committee are very much obliged to you. Sar John, let the explance you have given ! ... I am sorry

Mr. P. C. Cowas, Bass., M rear c.m., Chad Engineering Inspector to the Local Government Exard for Ireland and Past-President of the Institution of Chill Engineers of Ireland, called in , and Ensanted.

Choreson 141. I understand, Mr. Cowen, that you will be good 141. I dimension, in Cowns, the year and a course to give us some inferentiation regarding the harbours where their maintainnes in dependent upon public authorities?—Yes, Sin. As you are aware, the notice gives was rather about and I do not know stackly you only what may be culled absolutely errobence, and offer to give you faither errobence at toom as possible. My Borel is exceedingly account at all turns to do every-thing it can for the good of Brained and Iran to every assistance to your Sub-Committee. With regard to some of the mattern toolshed by your relatence like Board has economically slight countries. As an obstica-tion of the sub-control of the sub-control of the sub-port of the depth of the late of the sub-port of the depth of the sub-control of the sub-port of the depth of the sub-control of the sub-port of the depth of the sub-control of the sub-port of the depth of the sub-control of the sub-port of the depth of the sub-control of th I have had during the last 50 years somewhat special opportunities of ferming spinsons with regard to the matters which are within your reference, and what I mitten which are within jour references, and what I propose to do a cursory manner is to open up puries to you seepe of which you will disease, if you do not see of which you will disease, if you don't want item, and come of which you may not her to go into more fully afterwards. I must, on necessal of want of time to prepare oridince, so the your middlepses of I are, posite on areas points. May I say that people are served as truch in Invisació of antifective Commissions.

Mr. Field. Hear hear!

Fifteen 1 is widely thought that everything that needs to be known about Ireland as known, and that what is wanted is not more inquiries but more.

165. We see very much obliged to you for this piece strately with 1-1 finder. I necesty point out that as a matter of general inspectance which you may desire to none. You will be one proper with the disappoint out any ericance that I reat prove will be disappoint out, as it can only deal with such matters are 10 Tox with the subjects with which you are desiring (3) the rateur and countrol of Irak herborn and presen-ted the subjects with which with regard to them. responsibility of authorities (5) The (b) through witnesses. (9) The principal need of Be-land new as to works it probably arterial drainage (10) A few steas relating to the Ivengh-Pirrie Scheme as to improving road transit by motor services; a note or two about a recent scheme carried on for

Chairesen-centuned same time between Dahlin and Garristown, but now descentioned, as it did not prove resonanciative (II) in Dengal; (13) A suggestion that the striffs on the new ruleways made under the Ballour Acts might be a wary interesting subject of inquiry; there is no doub! they have done immense boods to the distincts which they serve. (46) A few motes as to works worthy of special inquiry. I am here to help the Sub-Commuttee in any way I can as a sort of pulst-various. I should like this to indicate important sources from which like drist in indicate superstaft somess from which reliable information may be provinced an extancious reliable information may be provinced an extancious \$260, of the Report of the Reyal Communion ap-ported to record on the Chanks and Indicate Natiga-tion at the United Kingdom (3d. \$260, and in the reposition of the United Kingdom (3d. \$260, and in the reposition of the College of the United States of the productor, dee (10 feet), the control of the admirable survey, based on exhaustive evidence and pureasal impaction of the exhaustive evidence and pureasal impaction of the exhaustive evidence and ways in related. Their ineight in about \$37 miles, of which only 60 miles—less thins, any, one-english of which only IS miles—less than, say, one-eighth of the total length (the Royal Cazal)—us controlled it a railway company, the Midland Great Western But

144. Ninety-fire miles centrolled by a railway com-pany I—Yes. See, however, reference to agreement between the Great Scothern and Western Railway Company and the Grand Company, in para graphs 179-181 of that Report.

graphs 198-18t or unto suppore.

Mr. Fredd, Thet is what I had in my mind when I heard you mentaring the 95 miles.
Fritney I in Great Entain about one-laired of the stall length of canals of about 3,800 miles in central length of canals of about 3,800 miles in central order of the canals of the canal of the canal of the canal of the canals of the canal of the canals of the canal of the canal of the canals of the canal teolled by railways. In America half of the canals are directed. The largest and the longest of the first water sign—the Shancon system, 105 miles—as manged by the Shate through the Commissioners of Publis Works, but it passes through a country with an average peoplishing of 95 per square simile if has the disselvantage that the largest locks are at the upper soil of it. Arth is lower out the locks are as a largest statement of the largest locks are as the same of the locks are small.

145 Do you know that those looks are capable of enlargement—Yev. In the 18th Volume of the Report to which I have referred you will find an estimate as to the estimatement at Killslow. Up to 1828 \$4,733,199 had been spent on the brish talked wasteware, wheat co-chailf of behind was provided lems public funds. The Grand and Royal Connis lems public funds. The Grand and Royal Connis

were constructed on an unskilled and very costly manner. The result, financially, has been a failure, though the figures between 1888 and 1966 showed in improvement in frailic and revenue. In 1888 the amprovement in traffic and revenue. In 1888 the total iterrage energed rus 865,567; in 1988 the total iterrage energed rus 865,567; in 1995, [OMIGES In 1996] the gross energial sense 1996, to 1996, [OMIGES In 1996] the gross energial sense 1996, and 1996, [OMIGES In 1996, 1888, 1996, in 1996, 1888, in 1996, in 1996, 1888, in 1996, in 1996, 1888, in 1996, in 1996, in 1996, 1888, in 1996, The canals in Ireland carry about one-sixth of tornage carried by the relivery.

M. Heaven.

M. Hea These figures show the result of the absence of large substant towers, namentations, and colliness on traffic in Ireland. The valuable statistical reports on Irash imports and supports prograph by the Department of Agriculture and Technical Instruction should also be referred to The Royal Commissions on Caralla, in their referred to The Royal Commissions on Caralla, in their the vegetting canals are takes, do not take a boystal for vegetting canals are takes, do not take a boystal gave regarding canals are token, do not take a flowful tive of the supplication of developing the brain system tive of the supplication of developing the brain system in Ireland prophisally no imissed meantracturing or large manning distincts exchanging infinite with sead-other and with the ese peter. Sook goods as there are other and with the ese peter. Sook goods as there are entirely of the nature of live stock, butter, ggs, and other appreciation, specific or in fight, goods requiring seven in delivery. (Section 60 of Ropert.) Another special medium; (Section 60 of Ropert.) Another special production of the special production of the arm gravitately entirely and substrates in the possibility of a greatly interceded truths on midnal substrates.) In Co. and is remote, in the view of the Reyal Commissioners (Section 225), and they state:— It is therefore no possible to have on existing facts as in the case of England—proposals for large expenditure upon my provenants of the Drich suderways. At the commencement of their Especies, they say that in some areas, such as the Enroy and the lower Barn, drainonce, seen as the Eurow and the lower Euro, dram-age is more important than navigoisen, and near the end of their Report they state that drainings and navigation problems should be considered together. The Boyal Commissioner observe the The Boyal Coconsistence absent that as regards worth, two of beds and water supply, the Inthe canals, but post of that the control of the Inthe canals, but post out that to each out out in Boyalin canals, but post out that the constant year in Boyalin canals, but post out that the constant of an intelligence an account of an intelligence water project. A lock of apparatuly marifected area were Reliable is referred to in correspondence in Yol. 12 of the Export

Mr. Lenday 147 What is the cenal in the North referred to?— The Ulster Cenal. The Commissioners of Public Works in Iroland have the fullest information on the no direct sended with questions relating to causile, but have certain limited imposities with respect to the powers of country consolide to take over canals under the country consolide to take over canals under the country Consolided and Satta, with respect to the by the Country Consolided of Meath, with respect to the sumerized devided canal between Dropheds and Nassa. 130 The Reynol—Yar: but the country council, about given every carefully into the mastler, threght

Mr. Lindsop-continued that the game would not be worth the sandle and that the game would not be wouth the cardia, and decoded not is non which he acquainties of the card-decoded not is no much the acquainties of the card-by which were it is not a construction of the card-by which were it is not all trainfest toos branches and the card-branch training and the card-branch card-manuscript decoded. They will be card-branch card-manuscript decoded to the card-branch ca

condition and prospects disserve careful consideration. Some valuable influentation programs that reviews as a final process of the American Report is the American Report in Local Post core in the American Report in the Local Post core in the American Report in the Local Post core in the Local Post core in the Local Post core in the American Report in the Local Post core in the Lo areasee as somety that I had charge of many year age—both Magn—there are time para—Tentials and para—both Magn—there are time para—Tentials the titully selected. A really good pure is now required at Becomes Pourt, Vestions Harborn, but the defined to the parameter of the parameter of the parameter of the corporate of the parameter of the proposed to be separated by the parameter of the proposed to be corporated by the parameter of the parameter of the parameter of Tarter is no mancine traffic with felts in this Aurton, Tarter is no mancine traffic with felts in this Aurton, Tarter is no mancine traffic with felts in this Aurton, Tarter is no mancine traffic with felt in the following the Tarter is no mancine traffic with felt in the companies of the Tarter is no mancine traffic with felt in the companies of the Tarter is not manifested by the companies of the companies of the the companies of t

Witness: On that point—the question of money and Irish pors—there is no doubt that Ireland has got Figure 1.0s. that prod-table question of amount and the same among to help labered than Statistical, but has sure only to help delicities than Statistical, but has sure only to help delicities that the same and th Departments in Ireland appear to have possible, and to some action overlapping, powers and datase in support to marine works—the Commissioners of Publish Works, the Department of Agricollure and Technical Instituction (Publisher Branch), and the Computed Data Crebi Baard. These is No apparent—good repost for such division of responsibility, and a comodulation in this respect appears to be very desamble.

148 Has my effort been made to get that consolida-tion !-- You, some On the point I have been dealing with, I wish to draw your attention to an official name with 4 with to draw your attention to an efficial paper date states to an the anomina. It is the number of the Kerry Courtle, Council, which, at its nucleing on the Kerry Courtle, Council, which, at its nucleing on the constraint of the Council o

Mr. Lindsov.

Mr. Lindsay-continued most weaterly point, you find a number of piers in the domain of the Congreted Butricts Board. Thus you come to Kimule, and you find it is the Department of

come to himsis, and you must in the acquirement at the harbour. Further east, at Dunnare, the Commis-ment of Pable Works are in charge As a result, some of the Departments our afford to do marine work really well, or to mannish a sofficient engoceting staff. Such division of responsibility emmit possibly

stati. Ouch division of responsioning until possibly give animization results. 151 In the Board of Works part of the Local Govern-ment Board I.—No, it is not. The Board of Works have a great many functions, including the same of leans. a goat many functions, including the mans of focus They had encourses powers and duties many years ago, but some of them have been transferred to the Department of Agriculture and the Fisheries Commissioners, and so on. What point, Mr. Chairman, would you like me to say anything more about

322. How many of the harbours in Iroland would you consider soft-supporting I—I do not know any of than that are soft-supporting or fourishing, except hose of Dublin, Belliss, Out, Londanderry, Louenck, and Waterford. Now will fail information on this pitte in the Report of my Record on local families,

and restorated. The fault has interested on the second content of inspected expression were to mixed to a great control of the contr clic, and his largely solved the difficulties of the Isaach-Perris Communica. Their difficulties were the been largely errocces axes. You can not trived up to longer miles an hear in a node-car without levels. On the law, and the roads have been very murch up to the law, and the roads have been very murch up to the law, and the roads have been in fallaced. I think that a Fried war, which is very light on the law, the law of the law

Ме Нечин 155 By motor transit!—Yes Mr Henry Masteer, of Kilkeel, has much experience of road transport in

Mr. Harvess—continued.
Comply Deven. Mr. Harten McMerrough, Galvey,
Mr. Harten McMerrough, Galvey,
had pletry of men like him in die seinter, flees
and le him hig me fin Generment information. In
Heisen of the General Control of the Scientific Resident
Heisen of the General Control of the Scient Scientific
Heisen of Mr. Bennish, et Gest. In the Scient was the
Heisen of the Scientific According to the Control
Heisen of the General Mr. Polleck the Charman
Lakes up as mach time at year one give me. I would
be to mention one of the Blue Books, if I may,
and it is also the second of the Control
Heisen of the General Control
Heisen of the Heisen of the Heisen of the Heisen
Heisen of the He

Mr. Harren-continued

1908 (Gd. 4907 y 156. What it is about?-- It is the Boyal Commission

156. What it is about 1—It is the Boyal Commission preaded over by Lord Dralley, on Congostian in Irreland. You are doubtless acquainted with the Report of the Artestal Drainage Crimmeson, and also the Second Report, dated 1838, of the Rayal Charmassian Falls: Works, of which Ser James Allyset was Chairman That second report refers mainly to power, and it contains a most winshin may of all the footer

197. Were the recommendations carried out?-Some

of then were carried out. For instance, the railways to Ashill and to Valentia. At Kinsale the railway is some hardreds of feet above the harbour. Money a succe hardrain of loss above the kerboar. Morris stage to very outly parts to hirst the subvey down ratget to very outly parts to hirst the subvey down report or the confinion of the parts and between counts the costs in 100, which 1 will hard in 1. I statistica of Civil Segments of Probasil, containing a little of Expression of Probasil or Office to Advise containing two Presidential Advisess, one of whole the in-order Dec. Mailing the outlyit to deliver containing two Presidential Advisess, one of whole the in-order Dec. Mailing the outlyit to deliver containing two Presidential Advisess, one of whole the in-order Dec. Mailing the outlyit to deliver containing two Presidential Advisess one of the Commons, in-wealth the supplies of the Commons, in-wealth the supplies of the Common and the Commons, in-wealth the supplies of the Common and the common and common and the co

158 Can we see estacting of the Ivesgle-Pirrie Report*—It was a private Report. There is not very much in it, except what I have told you-that it was destrable to have improved means of transport and in it, were that here tod you that it we describe to have supported means of transport describes the supported means of transport the motors were too havy for some of the roots, and that the reast allered by the Art of Politicanes are seen to the support of the support of the roots, and have been represented most, that the speed limit has been supported may be a support of the roots of the Kerry Enlarger support for any constituted in detail. They have explored intenses benefits for the Kerry Politican with the flow moder garactices as to inferred on part of the flow moder garactices as to inferred on part of the

158. Are the railway standard gauge?—Yes, the cedinary gauge. In Lincerick valuable evidence regarders motor risalic on souls could be get from a representative of Meson Cheeve, who carry on a large macount of mechanical traffic on resid in commotion, with their very important beautors.

Mr. Hesnes 160. These are the dairying people!—Yes. You cought also call a representative of the lacen factories. Bond transport is largely developed around transmit.

Mr 'Zdudsov, 16) With regard to flooding, what action does the Local Government Board take in reference to it? Do Board Town American Security of the Special Two Serve complexes of a certain size of flooding, but not of flooding in the country district, and the security of the secur 9 Sentember 19187

Mr. COWAN.

Continued.

Mr. Lindsay-continued with regard to arterial dramage as Ireland until the Lond Act vidually changed the mode of tenure of land. Formerly a few landleeds controlled a large arm and you could accurage with them as to general improvements on a large scale; but now that in abolishely impossible, and, in my opinion, the most capportant malter is developed regioning improvement with regard to arterial drainage in Ireland until the

164 You would require new legislation for the norpose !- Yes, of cours Mr. Fred.

105. You said that there were almost sufficient 100. XOJ was then there were allowed connections tempers inclinion in Reland at present. It if your optimes that the coal and other mines have been de-veloped in Ireland? They have been developed quite as fully as their business value was ranked, Of corres. as fully as their humans value varianted. Of course, most that we have war constituents, it is probably was to give them, special assistance in development. 160: Do you not thank that there is plenty of room for future and stone and measure to go by canalization of the constituent of the constituent points in continuing to header them going to the constituent points of the constituents of the consti

about rates.

168 The tribunals connected with Irish Boards do not always give satisfaction. You said searching about the Newry Canall—You.

Mr. Field-continued.

150 I have received three communications steer that!—I think if is a very important exact, and it would be well if something could be done in conne-tion with it. Lately they have been trying to stop the Irakage in the cutal. 170 About Valontas, you heard a former wirege saying that money was gaing to be laid out on Valontas, such an amount of memer as in apparently at the disposal of the Development Communications; as are anymost or the forecognisms Communicated to 1 lbunk Mr. Ennas was good enough to gree the figure of 27,500 as being available. That is only about one-thand of what is wanted for a readly satisfactor pic Instead of scattering areand memory in small sums, and door, Buttle or no pood, it would be better to allocate it to a few pages where substantial bounding

can be seemed.

IT Yes are decidedly of opinion that the Basel
of Works and the Congested Districts Board shysical bases unified octivated "Direct see these latin Geom-bert and the Congested Control of the Con-struction of point and present designing with the con-struction of point and present designing with the con-struction of point and point which would do the work best, and give that body control. On that maker you will faint some valuable information in the Act of Praha-dian some valuable information in the Act of Praha-

172 I think you very much for your endence, which has been very comprehensive !- I am at your

Mr. Rossar Wommrourov, called in ; and Examined

17% I think, Mr. Worthington, you are prepared to give in some evidence in connection with Galway as a immediate port!—Yee, Six. transathatis pert1—Vec, Sin.
274 We hope to rust Galasoy, and after we have done
if we would like to pet a pool deal more information
from you than we out side now. We have a
year books, I think. Are there my perticular point
on which you would like to give us information. To
do not know that their my any further points that I
am more my individually mean rest.

Mr. Harrows.

175. Your main supposition is that Galway should be a transatlante part f.—Yes Galway should have it, because it is the capital of the West of frehind; it is close to a main line rankway; it is the first buy in the west; it is the easiest to appearant; the Seport of the Royal Communico of 1884 was very companio that Galway Eay was the best sile for a transatisation harbour in Ireland; and it is sudoubtedly the best Mr. Lindon.

176 What was the Commission to which you refer?

—It is referred to in the passiblet I sent you.

197. Can you tell us hew the Elecksod Eay pro-motions get their Bill in Parkanners and you nesse did "—They promoted their Bill some years before I brought forward my Bill, in 1935, in connection with Debuy. I got the Bills of as at the Secondy Orders (Debuy. I got the Bills of as at the Secondy Orders (Debuy. I got the Bills of as at the Secondy Orders and Second Bills of the Second Bills of the Second declaration of the debug folgor in Second collaration was a second being folgor in Second 178 How did the Blacked Bay premotes manage to get their Bill through 5.—They got it previous to my Bill being ledged

ill being lodged Mr. Lindsey | Yes, it was pervious to 1913 Chairman

179 We are going to the west, and hope to see the ports. We are enterely unprejudeced, and only want to find out the best. After we come back, if there are any possits on which we think you can sause in, we any points on which we think you can same up, we will ask you to kindly came before its again? Do you wish me to ablend at Galway? 180 If you are down there we shall be glad to see you; but I do not think at would be necessary for you to go there specially.

Mr. Piels. 181 I think he ought to make arrangements with

138. I think he ought to make arrangements with the Galway speakle to show an around the places I—Vis-ted Galway speakle to show an around the ingression that a really good terms the around the the entire contri-redly good terms the around the the entire contri-culture, we maintain, is the most suitable place for that part I for where a ten of goods in Galway, and that part I for where a ten of goods in Galway and that part I for where a ten of goods in Galway and that part I for where a ten of goods in Galway and Cinnels or America. That is a very present them to Cinnels or America. That is a very present them to the whole of Ireland 31 would, in foot, being the form of the contribution of the contribution of the contribution of the whole of Ireland 31 would, in foot, being the whole where the contribution of the contribution of the contribution of the whole of Ireland 31 would, in foot, being the law. Mr Ludos

183 It was used for a time |--Yes What year was that |--1856. Was the Midland Great Western I to Galway at that time |---Yes Western Bailway through

150 Are you prepared to give us any idea as to whither the Galessy people and the Midland Great Western Bearing or one in a position to give Instead outprict to a provide and knowledge at account of cooperation they will place are regard to it?—We look outprice the an analysis of the provided of the cooperation that as a national region to other the look. again that he is managain attents, worthy the support of the Government in Importal inferred. 134. We think we are cutilled to get information to support a scheme of that kind!—We have given information several times in regard to it. The port is not in the interest of may portestine part of Fredmi, adv in the interest of may portestine part of Fredmi, had in the interest of may particular part of Ireland, best of the entire country. 135. Would not Galaxy be benefited by it to a certain action to "Fee. The feeding of the country in flavour of the peet being at Galaxy is ovelenced by the receiv-tures passed by public bearful throughout the country.

Mr. Hannes 185. Your suggestion is that it should be a national

188 Perkage

185 Your suggestion is that it thould be a national project, without any local contribution at all-1-yes. The whole country has an indicast in it. You have quite as much interest in it, I impenditly, so yet in Galway have. If the Ball that I promoted first in 1911 had peaked, the carrying through of the Galway school have made a great difference in farthering the chiefs of the galway school as furthering the chiefs of the galway. object or tax way.

187. We have advanced a good deal sunge 1911 in that
country. There has been a changed attitude of mind
towards problems of this kind !—That is so

Mr. WORTHINGTON. n September 1918.1

Mr. Housen-continued. 186 Poshage you would tell us in general torms what are the turpoint and natheral points of view you had in maint, and white to the measure of this yeeped as a whole—I had the plan, when geometrag is in 1011, to connect Canada and America with our country. On the

to others comme may amore with our country. I providence to the frime Manuters and different furnities, and other public men-can't dain not need a surject person in Counds that was not in faceur of the process. None of the ministers there had the slightest color, in the public of the comments in the significant colors. project. None of the ministers mere had the sughtest ducht as to the value of the connection between Canada, America, and Ireland: The Prime Munister of NewYoundland agreed to give me a subsidy.

Mr Lindson 180 Did he munition the amount ?—No. Mr. Berden, Prime Measter of Chando, asked me, when I saw hun in Ottawa, what the Eritah Government were going to in Ottania, what the Errish Government were going to di in connection with the schome. I sold them I had any set appreciated the Government. "Go back," he soul, "cod make arrangement and tell us what they are going to did not be a formed and tell us what they soften this are that the Impecial Gendes will sub-stitute the soul of the Sewfordshind."

successive meetings made a pronouncement in invost of such a scheme for a routel—Yes. The whole city

191. Did not the Blacksod Bay people get about of you by prometing a Bell to make a lime of railway writions a subsidy of any load?—No. Ser; they never made or communed any railway or works or communication from randomly or works.

188 Are they asking for a solidarly from the Imperial Treasury 5-II do not inner. Blacked Bay has eightly maked of raddeny to make, as against only there required represents serechang Big a million of meary. We do sent money sport on realizing, but an introduce II is the barboars II is the barboars. It is the harboars—and there is not some of the sent money.

We have me transmitantly harbour—so direct conte to Comiss of Autres's in connection with the Blockwod Ear where the connection of the Committee and the Com

dence 15. They have not saked for any money. You are Mr. Field

196. Yed saled for it always t—Xes, for Galway. These miles would yim my Barna, where it is proposed to lave the part, to the main line of railway at Galway. Three miles connects the port with the main line.

Mr. Houses. 197. There is a Spaidal project also?—Is there? 198. Your scheme is Barns?—Yea.

199 The Midland Great Western Railway are pre-pared to meet you in giving Localities?—Yes, the sharebelies are missionally in fewer.

30. They are inverse of your scheme.—They are
Three is no see in Iteland soot in howard this scheme,
seed, naturally, the geneticent with one possible
the likeled Bay scheme, but we don't look on that
which the proper of the seed of the look on that
which the proper of the pool delivered at Barra
tiller of proper of the proper would, design
howken, that project. The pools delivered at Barra
tiller of the proper of the pool delivered at Barra
tiller of the proper of the pools delivered at Barra
tiller of the proper of the pools delivered or the protection of the proper of the pr

200. What is your view in connection with the hig transitionic stomers—are they to end their voyage at Galway, or go on to a British port and deliver

(Agirman-continued their deed weight to He thank when a proper harborr is built in Galvery Easy at Barna that there should be a through service entire the case of an experiment of Galvery, as well as the ceiling of Atlante liners. 202. This the case of these bay determed that early a lot of grath. What are you going on de with this when you get it deret—show or it as generated as the

2005. Is that traffic for England 1—Not necessarily principally for Ireland. My original idea was the trans forry, but I don't think that we would be shit to deal with teeffic of that hand until later. Such English traffic in large bolk would by denest. Mr. Hannes.

204 I am sure you would not I don't think you ever contemplated Galway in connection with the the train forty other than as a terminal port!-That Mr. Lindson.

925. The train forcy the All Rod Route were going to employ was going between Soudsand and Irectard twas going to be an 38-and two route of two species to be an 38-and two route of the force Oulvey1-Calway in neuron to Belliast that Shadarod Bay is. The occast figures one Shekard to Bulleast Sife miles, Galway to Belliast 395 on Bulleast Sife and the Calway to Belliast 395 and the Shekard Signey was the Shekard Signey with the Shekard Signey and the Shekard Signey was the Shekard Signey Signey Shekard Signey Signey Shekard Shekard Signey Shekard Shekard Signey Shekard S 207. It does not look monor on the map!—We are between 20 and 30 miles nearer. Galway as the most central place for all Ireland.

338 If you had these steamers running to Galway, what sert of expect cargo would you get i—The entire expect cargo of Ireland and the traffic between Chinda and America to Ireland, every pound of it-

Mr Hannen 200 But what Irob traffic would be available if it was a terminal port!—Take two stems, Guinness' porter and the lines trade of the North.

Mr Lindson 200. The inner seafle would not go to Galway. It is far cheaper to sund it to Liverpool. There as no chance of lapping the inner state out the North of human disputs the control of the North of the control of the North of the Control of the Control of the Control of the Control of Changes. What good to you are not be not control of the Control of th

Mr. Honnox 211. There is an immease fish-curing industry in the West of Iroland. We want to develop it 1—Yes.

Mr. Zésésay.

202. Leadyn on Kwellengins, what you would be a second of the control of the cont

the entire passenger truthe would got that way. 215. When there was a really good port in Queens-town, and great hig insers called, there was no pas-surger truths to speak off—The poor was not me the proper place. At Galway it would be different. 216, fb as hardly any facther from Dublin than you are—Queentiown is 10st to be compared with

217 The

12 9 September 1918.]

Mr. WORTHINGTON.

Mr Leadery-continued

217. The Belliast people mover get off at Queens-town; they shays went to Layerpool !- The systems lovel; they steamy send to Laverpoul!—The ovidinous in America grown to not want that the entire pus-senger sufficiently to the Gallery in consequence of the control of control of the control of the control of control of the contr would reform the entire country. It would bring an in contact with an energetic, hard-headed, punctical

Мг. Написсы

218 Many of whom would travel through Ireland to Bariand !- Yes.

220. You represent the Competed Districts Basel, Nr. Hicksts—fee 1 seat you in a measurandom of Nr. Hicksts—fee 1 seat you in a measurandom of the Competence of the Competenc

Mr. Lindsoy 221 Where is Clarifort—Anne 37 males to go and of Ope Gas. The markets experiency works and Ope Gas. The markets experiency works are supported by the control of the contr 221 Where is Glandere !- About 30 miles to the ing to reasonable expectation. In one financia (Kaliphang, Co. Donaspia) a tauber per sur built with groundlevely pile and a prichipura decel. In other cases the
control of the pile and a prichipura decel. In other cases the
first pile and a prichipura decel. In other cases the
first pile and the pile and pile and the pile and office most as the incrempaphon fanding-place for as again are generally breakenders with a slip, or preferably, if possible, for accounty a basel-elestrone of rocks or bedders Such frail craft as currents of rocks or bedders Such frail craft as currents absolutely exceeds surface for localizing at as any projecting stek or boulder would tear cauves covering

234 Has any effect been made to combine unabase with deep-one fishing heats at this phose !-- The inshees basis are open boats, and cannot go far out to see.

225. I have been seld that there are certain hatboars disk a new come sees once sees one coverage thereously that are made solely for the inchese boots, and that the deep-see boats carnot come in, and that no arrange-ments were made when these harbours were being ments were made when these harmours were balls?-I do not think that is so. The works that we

Mr. Housen-continued. Changes | We are very much abliged to you in the evidence you have given, and later on, after we have seen Galway, we may ask you to come before

Mr Field. \$19 Your point, Mr. Werthington, is that the con-struction of this port at Galway is not so much a local so a realisonal and Emperal question—You II we in Galway are left to build it, it will nover be built at all. It is an Imported question, we say, and the Government caght to deal with it in regard to improving the prospects of this country and expediting their own mail service, so important to Engine! Ivaluad, and the Colonies

Mr. Witanam L. Micks, Congusted Districts Board, called in; and Reserviced Chan son-optimized

do for small open bouls are in places where there would be no shelter for hig boats to lee. The bog bons could not be bessie the slip that shelters a small boat.

225 Have you not got any type of motor beat that draws more than air feet 1.—Tes There is a large flet 227 That air feet of water is at low spring tide, and those are the codinary make type of boat T—The lend we build vary hum 50 to 80 feet

223 That would draw more than mix feet?—We build them so as not to need much more water.

339. They are good sea boats!—Yes

230 Are they competent to carry an hig deep on fashing of which Sir John Griffith spoke, similar to the Griffith boats 1—Not at all competent to the failure from Gransky

232. Then we should take it from you that these

233. Then we should take it from you that these

234. Then we should take it from you bear you. 233. Then we should take it from you that these harbours are not mittable for these deep sen-boaks. Yes have hardly say deep-sen boats in Breisred .—There are no beasts that go out for more than a night.

232. They are not of the same type as the Grinsly.

Mr. Zindney 233 What power do you put into the 80-foot boat?— Up to 70 home-power, according to the boat. They are paradin motors. We will not searchin petrol at all in Up to 70 hone-power, according to the bast. They are parafin motions. We will not sanction petrol at all in the basis. It is not said. The parafect of the purchase system—They agree to bay for a certain sum, and they come to a rad give up personal security, and also a morigage on the best. Since the war begin we consider the properties of the properties of the parafect of the properties.

a mortegape on the beast. Since the war begin we require them to pay down a proportion of each.

250. Did you not before 1.—No.

250. Before the war they paid nothing in each 1.—No, they did not. They pead of one dith and year.

257 What interest do your charge three 1.—25, pead.

257 begin for locar out of the Fishery Louis Print the country of the peads. interest is only 25 per cent graphs of the Killybegs peer

228. In connecting with those piece, what arrangements are made to enable the fakerment to health the fall when he just and "-Bet rose recent piec constructed at Beltrariere, Co Cont, and these the rails we established and ron to the past. "The finh are just, and the property of the pr fishing ports

30) Do you think that it would increase the number

399 Be you think that it would increase the number of persons sharing it there was cold steened—I think nearly all the near hast would fish are finking. I do nearly all the near hast would fish are finking. I do near betieve the near the steened of much extension except strangers occur. In peace time we should have beaut from the side. The Cornatt besits come to the south, and the Scottish beaut to the next.

Mr. Lindson 261. The absence of an ice making plant is awkward?

—Yes. We made as a first We made an effort to promire plant, with the

Mr. Lindsoy-continued. amplance of the late Lord Rhondda, the Food Con-

Mr Kesting

cationed and the work duly completed. As result, very large quantities of its were dispatched to the Eaglish markets by the Cork, Rosaline, and Fishquard rath. This work was carried out by the Cork County. act stated by the firsh Bessil of Works, what is the cancitate body made the See Falbertes Acts. The argung out of the weeks at Batterna and Bails below the second of the second of the below of the blue pers are, as a rared base, the matter as in the charcters of the Admirally. There is set any objection to to argung out the proposed most Oscill sept at all Benimpset, except the proposed most Oscill sept as the impact, except the proposed most Oscill sept as the impact, except the proposed most orbital soft was the transport of the proposed most of the second of the second of the proposed most of the second of the second of the proposed most of the second of the second of the proposed most of the second of If the Fish Sob Committee now inquiring into harbour sail pair accommodation could in any way thin in the immediate starting of the proposed pair and what accommodation is Recursal Pent, no more until service could be done. In a conservat ion degree, the assure observation applies to the improved works at Basicings I and Dingle. The Bashour Commissionance

Mr. Kesting-continued

of Sigs, Galway, Westport, and Dirgle have out of their abunder means, and with the assistance of advances from public funds, done much for the improvement of the harbours respectively in their advances from Divine transe, improvement of the harbony, respectively in their charge, but further assutunce is argently accord by the Harboner Commissions. The bown of Billionides, Co Mayo, with the boality about it, as the most backward district in Ireliand, being over levy miles from the real-way at Bullona, and about thirty from Mallagamy. The Commission furnities Beard pays a quilety by a Signway at Rallma, and about they from statistically re-congested Distrates Reard pay a substy to a Slage stanner for a service for goods and cattle, but better means of communication are arguestly model for this district. This ma map of the Rallmore past (handing

Chairman 284: Wes that your continued at a cost of \$10,000?

-Yes 14 cost a little more.
285: You put a divelopment grant there?—\$7,500.

The railway company substrated, and the coming connell and the Companto Dauthota Based. We wanted a similar arrangement made at Resnard, Valantia.

Mr. Hesses.

S66 An application was made to the Development Commissioners for a great t—Yes.
S97 28,750—Yes.
Chansons I There are some points we want to get from Mr. Backs in commontain with the radway system.

Mr. Lindson.

248 You know there and to be complaints made regarding the communities on the Luigh Swilly line across to Engined—there are, all leads of swell—yes. There is trouble still. Within the last few months Mr. Bargess was able to get some improvement, but it is very difficult to get this tendie there properly deals

292 I know there had been complaints. That teaffic was very large 1—Yes. 259. And it was rather important it shrald not be datayed 1—Yes. The greater quantity of fish landed in Decagol counts be sent by rail.

251 The greater part of the fish cannot be anni by rall from Dongsal Whyl-Bearne there is not a railway to Downings, Kinessaligh, and Teelin. The residuay was made too its away from the poet. 252 How far from the porti-Eieren miles from Downings S53 Could that cloven miles he managed by moour?

... The road is not syntable at present Mr. Lindsoy. 254 Killybegs to all right?-Yes; but there is not such good fishing there

such sood fashing there.

235 There is no executing done there!—No. The
unity place in the correspond distracts where their is done
in Diright.

226 Why.—They used to get high proces for curred
herrings and machinered in New York, Humberg, and
Petrograd. It is an American wine has, the canning at Mr. Hereson.

237 What is the definite proposition in connection with Valentia; that we could make a recrementation on—a further grant b—it has not come to that y(t) but I think it will have to come to this, but we would want unproved facilities. Mr Field

258 Could not the Valentia people meet us at Traise? Mr. Henrow I I think we can get all the essential lates from Mr. Marks hrosalf in Kerry are rosed Friezard The sourcy control. In Kerry are rosed amounts at grand to Values and asheolytob to him to the source of the so In Galway the boats have no docks that they can escan-into. You will see there a dock without gates.

259. Whose 14 9 September 1918? Mr. Micas.

Colored Gretten 259 Whose fault is that?-Went of mency, I ипресес.

250 Is there a Port Authority?-Yes, Harbour Commissioners. They spent all they could 261 This was intended as a graving dock?-It used

Mr. Folk. 242 The gates of that dook were booken when I was in Galway I.—There are no gates at all now 255 If the gates were properly made, that place would not for dainy boats I—Tan; that could be

Mr. Lindsoy. 264. In there rail communication !- Yes, alongside They spent a great deal of money in Steps, but still they want more done. I know that Steps, Gaisway,

Westport, and Dingle are at the end of their means Mr. Field

266. Singo was formeely very important for the shap-ment of cattle?—Yes. Some of the ships have been sum. 256 Siego has fallen very much from what it used to be 5—It has, ance war looks out

Mr. Lindson. 267. You say that some difficulties have arrive at is all right there.

266. You said "the same observation applied to the approved works at Bartomperi and Dingle. I thee you were suggesting difficulties about the rulway No. These two provents should not so on now.

250. The railway is slongests that !—Yes: We sub-time a steamen for Sigo now. It is more than we can continue to do. It was started under the Railway Act continue to do 11 was attreet known to measure or of 1895. There was a section enthresing the Sound of Works to run these lines, and as seen as they spent the 250,000 wood by Parlament they said they would spend no mere, and the Treasury did not go to Parla-

270 It was not confined to the Sligo and Belmullet 271. It was not given as a consolation in connection with the Shannon service?—It was not.

Mr. Pitt 272 The Board of Works have shifted on the respinability to you in connection with the mainten-ance of the Sign survees —It is the Treasury. nce of the Sign service ——It is the treasury.

373. The Board of Works is portion of the Treasury?

276 This is a subridy that comes out of rubbic

ignite. In there any means by which the running of the steamer could be made suff-supporting?—No Mr. Freid

275 Could you suggest any way which would make it self-supporting!—I don't think you can hope to is tell-supporting — don't calle you can sope to
make it self-supporting.

276 The steamer runs case a week!—Yes, or oftener We have another steamer service to the if required. We have another steamer service to the Arran Islands, and we never dress of that being self-supporting. The population is not large enough. The

Mr. Landson. 277. Why did you not desline to carry the mails?— They tried first to run the mails as the personal lag-gage of a man who went on heard. That was stored.

Mr. Hornox

[Continued

278. I think some of the numbers of our Committee are familiar with your views on Erich connecte de-velopment. Would you tell us how for you think the dwelorments of harbours—that in the creation at pure-would affect the economic development of the country as a whole ! Would it be an unportant feeten, country as a wasser weather to an improvement interest, in your way I—Yea.

279 Do you think also the development of har-bones would encourage within the country greater go disctive effort, so that they would react on each other?

ductive effect, so that they would must be such other. Wheever you have hardens shared that is obvious Goods come in that saver resolved the district before 200 In the Report that you submitted to the Government in 1907 you made a recommendation of contraction of the 1907 you made a recommendation of the commission of 1 don't think on the commendation of the 1907 you may suppose the include water development. The was not southed by us in the West development. The was not southed by us in the West at all SER Your Report was a general one referring to the whole country !—Yes.

Mr Lindsey. 283 Is not there a little traffic on Lough Chemb!— There is no traffic on it. 284 There was sense time ago, up to two or three times a week?—Not on the coad, but on Lough Cornib. The book in getting repaired.

Mr. Field A pleasure steamer?-No, she carries a good is not spent on them, for making any came as successful as they explit to be 297. And at present you have practically no de sea fishing on the west coast of Ireland —Yea don't like accommodation for that class of beat-

Mr. Hannes 208. You don't think there will be increased calches with more and accommodation t-I do. Strange loads will come, and more tak will be landed.

Colonel Greiten 202. In not a large postion used to increase the food supply i-Nearly all goes to England. The greater quantity of hornings and macketed were cared. come the war. 200 There should be no complaints about the railby Itemset?—There are always complaints by people 291 Do the railways do farly well on the whole! —I think so 202 What became of the cured fish before the

-Bt went to the United States, Hamburg, and Petrograd. We tried to get the people bece to out fish. We found good damands for it or Fridays and fint days Mr. Hannen

Mr. Horsen.

300. In three way part of the sees under your jurnalization that you think could be definitely in proceed if each lichildness were prescible—peaser transport becluste why per school —peaser transport beclust by the inland waters—I really could 304 Will you family give it a thought, and be as know I—Will plasma.

205. With negated to the competed part of Leisten that toucher Asigns we may perhaps ask you a question when we have get the evidence about Assembly. I shall be glad to give any information I can

The Bight Hon Lord Montestas, E.P., Chairman of Hurbour Trustees, Foynes, Co. Limerick, called

Chairman-continued 395 We intend to visit Feynes, and would be glad if you could give as some information about fit— Yes, I shall be glad to do so. I have arreaged my conderer, assembly. General Considerations —4 understand that the terms of reference of the Sub-Committee are wide, em-bracing the development both of first harbours and of mixed navigation. The former night include four The Right Hon. Lord MONTRAGLE, E.P.

Chorreson-continued

Cherven-continued.

dataset. of different in set imprecises. (1). Fishery,
Indicates, (1). One case of imprecises. (1). Fishery,
Indicates, (2). One case of the c men et al. et al the Empire I would not come there to advocate any such system of dolon. I trust, however, it is nuneces-sary to argue that, under such a system of Home Rule,

sary to expre their, under such a system of Hotos Brile-polish works of an Empresial describes and supposite any rosts properly to moderathen a discontinuous and the provets of an Emperal appret in Preland may alreged depend on England Israelky ecopysis in such meta-shading as imported obligation. These provid-tion of the providence of the property of the such on "mail." Suchesia, calculated, and only of uniform of main and the such as the such as "mail." Suchesia, to such as grown communications before me to be so Mishols, but supore communications between the two islands, but able to brong Traband into the mean steems of weld-infife and to bring home to the fresh people the white of the Direction Commission between the trabal contraction of the Commission between the trabage harbourn, these are christople Impressl, and must be permissed and safeguarated by England in any scheme of Home Rule within the Engine I venture, where the Home Rule within the Engine I venture, therefore—Himse Rule being on the Stateste Beek, and thus to the local or national aspects, and it is on this supposition that I have my engineering

in inperfami considerabors at all tases, while investments in the leasaning of authorism miss. At my rais, all parties in Fraked may be raised on to consisting ports will, I trust, seader this support. If considerabors of expense perints, there would appear to the original parties of the contractors of expense perints, there would appear to be originated that one would appear to be originated in height good than one would perfect the contract of the contractors of expense perints, there would appear to be originated to the contractors of the perints of the contractors of the c

Noted Bass and Strategic Harbours -The mod for where on the west ceast of Ireland, and their respective anxiety, say, of coxiety operations for naval and subtray experts. But to the unisativeted oxyland must be former would seem to demand concentration, while the latter would require rather diffusion and subspirations, both for the substriction of crope and the discharging (especially is war firm) of cargoes of 50 of 18 has been suggested that a "math" hartour and a navel base might be combined in one post, and though await practice has been to segregate naval hases, even in the recent case of Roughl, the reason for this is not apparent to the more critism. Again, a "soull" harkenr " is, of comes, frequently combined

Chairssan-continued.

with a commercial port, and there is an obvious advantage in this if mail and passenger skips are to continue to earry goods. But if goods traffic and express traffic are to be separated as in military transcinks, and clearly the various possible sites must be only or mass than one as contemplated for such of the above classes, other emply or in estimatation, and I therefore large on behalf of my Boost (Riverse Barborn, Litture Barborn, to be malcied as such reversigation, Hyre Shazern, to be malcied as such reversigation, Hyr Boost will be required, if so distance, to effice expect orders to the Shat-Cammitton on support of their orders to the Shat-Cammitton on support of their sectionary reduced by the war, they cannot affect to many more experience of the kind. Tary tops, there-fore, if a pressa fosts come is mode out to the attribute cost, the Shit-Cammitton will deal maderate his

Faynes Familities -- Coming now to the case of Foynes. (1) For a Transatlantic "Mail" Port—1. Proximity to America; 2, asioty of approach at all weathers; 3, shellesed deep-water berthage at all times of tide; 4, proximity to London.

(2) For Naval Base—Requirement 2 is essential and 3 probably desirable; requirement 4 is not necessary; but 5, desperator uncharage large energib to accom-modate a war floot, in essential. This is not necessary.

for a " mail " port. (3) For Strategic Haibrurs—Requirement 2 is assential; and 3 is important; 4 is not necessary, though sail communosition is essential; 5 is not

Brownwart 1.—There is little to choose between Blacked, Killary, Galway, and Foyues on the extrary of the Shannen, which are all practically the same dis-

Regument 2—The approach to the Shannin is, I believe, the safest in all meathers of the four of some from rocks and aboats, and the centour lines of secondarys being spreading being spreading being appearably well defined and goodsal in observation towards the hard. Once offer estuays is made, the averagation is perfectly from and straightforward up to Fogues from the meth between Kerry Hold and Loop forms from the meth between Kerry Hold and Loop.

without facing in a pilot. Repairment in the property of the Repairment A.—Peyres is sirgularly well circuit in this respect, as it lies under the lee of Format Linds, which ocks as a brakewise and resident the natural deck. The small sasting pier has one berth with 25 feet of waver at low water going pier, and the occupanying plan of Er. Man Griffith about the extensions on the explaint of the residence of the contribution of the complaint in the near federa, and the Requirement 4 - Feynes' is almost on a direct line from London to Halifax, via Fishguard and Rouders. It is econocted with Lenarisch by a radiusty twenty-fixed miles long, built, in 1850, with a special view to trans-

miles feig, built, in sect, with a special view of salancie mail traffic, and is thus nearer in time to London than any of the fear peria except Galway, which is about the same distance. The railway at Foynes rans down to the enisting deep-water both for this purpose; but, as pointed out above, this is not procusary for either a "maid" or a strategic harbour. Question for engineers and other experts, and I do not presume to offer any opinion on it. But if cost is any

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16

The Right Hon, Lord MONTEAGLE, R.P.

consideration, I believe it will be found that the neces-sery "mail" accommodation can be weened. confinement, I believe it with be lumit that the security result "association has be prevented much party result "association has a covid (i) to the party temperature. This are covid (ii) to the party temperature of the contract the association the association the association that the party temperature of the contract to consideration as a caseness. In support of this belief I would now the compared to the contract to consideration as a caseness. In support of this belief I would now which processes the consideration as a caseness. In support of the belief I would now the contract the consideration as a follows—althout, \$25,0000 T (bottle, \$50,000 T) and the contract the consideration as a follows—althout, \$25,0000 T (bottle, \$50,000 T) and the contract the cont not cost to between the Shannon and other ports would now be markedly more farmer able to the former than require. Now the Statistica states; is singularly well adapted to pice work from the rotative of the foreighter, which is generally alleved and such yearly, and this distense are only. It belows fromth, at any role to the same extent, in any of the other ports in question and the contract of the contr showing line of feiture sertements; and (c) plus gra-pared by Mr. H. T.O. Day, C.E. for Lard S. David's Committee in 1927, also submitted herewith, for an emergency work to accommodate a 5,000 ton grain word at all times of tade, which was estimated to cost

vessel at all time of usin, which was estimated to const. ED,000, and to require only eight nomink for excenters. Such as the clear is submit for Esystes burge contents and the clear is a contemplation. If the Sub-Ostanical properties are contemplation in the Sub-Ostanical properties and the Sub-Ostanical properties and the Sub-Ostanical properties and to be allowed to salarities our clears mader thus basels also on a little occasion. It would be based as he can be submitted to the content of the arguments

In enclasion I may state, as regards our past record—(I) Forms Harbour Trustees were considered and the harbour irransinued to them by the Beauti seed — Di Person Rachera Transica von comba-de Weit and hersträgt aven aus GT fill in release of Weit and hersträgt aven aus GT fill in release Di With hills er as austicate from the finite and memorial the companions, soft on a cream-of an extraction of the companion of the day have understand worth of companion to make a large companion of the companion of t releast, and I should be prepared to show that we have note the best use of our opportunities to but, and to minimum that this is the best satisfaction for claims for substantial assistance from the State.

207 What would the position be un regard to gallway communication. —We have got a railway there are.

225 The standard gauge f—The ordinary gauge.

292 Is it a single line?—Yes, from Linearck 1 tank there is a double line from Linearck towards Rosslaro. I don't know how has it goes.

Mr. Lindson. 300. I think the whole of the old Waterford and

302. And double to Topperary ?--Yes. Mr. Pield 302. Is your proposition to have Formes as a trans-

atlantic post for made and passengers only !-- I rates; aspers to level it up to the sequirements of a trans-atiantic port, and for that purpose I subset it would have to be an Imperial work.

Mr. Lindson.

363 The ries in connection with the Blacked Bay scheme was that Blacked Boy was to be a terminal and that the beats would only carry pattengers and

Ms. Hannes. Not. You contemplated the train-ferry site between Greet Britain and Ireland !—Yes. See We were discussing this point earlier in the cay. The Blacksod Bay people, at all events, should seriously consider the question. They contamplated as seriously consider the question. They contamplated as been ferry at tender knot an extensive tender of the first in the case of the contamplated as the first in the case of the contamplated as the first in the case of the contamplated as the case of the case very slow !-- Yes I have not gone into the irain-ferry question closely. When I heard the matter du-

cussed on provinces occasions, and the Newtoundland people speaking about it, train-fairnes were contem-plated, I understood 306 One idea in connection with the Foynes scheme One the connection with the representation of the representation o

Mr. Lindsoy 307 There as a connection at Limenick at present, but I understand at a very bud 5—Yes.

but I understand it is very bud 7—Yes.

338. The fact is that no traffic passes now at all.
The econocities was so bad highling never came along-side. Is there does water?—Yes. I beare got the clair! Mr. Hanson

Mr. Hanness.

369 Wealt yes say a few wreak on the possible contenue development of the Seath of Dreland in ray of a numerical possible of the Seath ducts to America 310. That is exactly the point?—Foynes has a may affect incestors quarty—a very leavy store, which is suitable for espisiering works and healthing caracterion, and I den't knew what the possibilities are of finding a market for that is America. That is

one of the possibilities that his occurred to us at Foynes. It has been suggested that there might be 311 The Mi. The expert of pectaces depends on the price in the United States L-Yes. I was under the impre-gen that there were many climates in Asserts that were not available for the prederiction of petables. 312 Tow over not therating of the United States show l-No. I hand it supported that they mught Mr. Lindson.

ages to the Arms of the Africa.

31h Is it considered by your people that the titlal carrents are so strong as not to make Peymos a good place!—It has not been found so in the traffic.

354. That is very much medified by the shaltered position !-- Yea. Mr. Hounes

Mr. Hesson.

Mi. Lis is not that complete also description to the large form of the

shall get the grean trade, or a portion of it, to come it. Evyres.

207. You are not morely interested in Dyrms, but in the present progress of the country, and one of the questions we have to inquire into is the development of missed stater transport. Have you any opinion to give as it to the further development of canal tradition.

gre us at to the interest operationment of other vasar-che conveyance of goods over canulation ecfor to excourage the production of the class of article that would be carried committedly by water inland to I have long held a very strong opinion that the consis-

Mr. Hannox-continued.

in Ireland, as in England, ought to be more ntilised and I should like to see them nationalised. Lore Month's Commission was directed to trying to recen cole the conflicting interests of raised waters and arterial destrage My. Lindsey.

312. It only dealt with a few places 1--Yes
339 The Eullimenore Canal was condensed, and
also the Utier Canal 1--Take it is or 320 The Utier Canal 1--Take it is or
320 The Utier Charl run, roughly, from Lough
Nough to Lough Sime. There is a Utila housess on
1 still, but it loses money every year 1--Xes

10 mill, bet it lesse noney over year 1—Yes and 200. Chemis in purely agencilized countries have not sufficient traffic, so one on heatly believe since not should be a sufficient traffic, so can be sufficient to the heatly that the traffic on the Great Chank and on the Shunton night be very largely developed. In the Shunton dight the very largely developed. In the Shunton district three weee only 90 people to the square mink—Universe no to large towns on the Shunton. Atthems as the sliggest, and it is not shunton. Atthems as the sliggest, and it is not seen to be a superior of the shunton.

nery large.

Chairman, We are very much obliged to yee, Lord

Chairman, We are very much obliged to yee, Lord

Menteugle, for your evidence, which will be very

useful when we go down to Foynes:

Witness! Do you wish to have any engineering

evidence at Foynes! evidence at Foymen?

Mr. Housses I den't think so. We want to get the facts from the ordinary commercial side.

Widness Our organore, who carried out the works

we completed minetes mentls ago, is now in that in the Air Force, and I cannot get at him. He had the whole thing at his diagers' each. If you wanted any outplaceting witness I abouild have to look clos-The Sub-Committee their adjourned to the following

morning, at 10 o'clock

SECOND PUBLIC SITTING: TUESDAY, 1008 SEPTEMBER, 1918,

In the Oak ROOM, MANSION HOUSE, DURLIN, At 10 AM.

Mr. W. A. Londsoy, M.P. Colonel John Gretton, M.P. Mr. William Field, M.P.

My. P. J. Hannon. SIT ARTHUR SHIBLEY BENN, M.P., 19 THE CHAIR

Mr. Printer MacNutter, Secretary

Mr. H. M. Dockern, Representing the Dublin Industrial Development Association, called in; and Chairman-continued.

Cheirman. 383. You represent the Dublin Industrial Development Association, Mr. Dockrell !- Yes; I am a part president of the Association, and I am managing direc-tor of the firm of Thomas Dockrell and Co., Ltd. We had your Scoretary's latter before our Council mosting, and the Council saked me to say that if you could give by their whole move before you. At the arms time they neked me to come here this morning and by a

Mr. Matthew Keating, M.P.

for matters before you.

224 You have read the reference to this Sub-Constition, and you understand what we want to get at
We want to find our what can be done to improve any
thing that may be wrong in the way of treatperration, 285 Have you got may statement?—I have not got any written statement, but I shall make a statement about the facilities at the Port of Dublin. That is the principal thrur I wish to deal with. We wish to see a 0.71%

proper linking up of the railways with the port. Now, for instance, the whole of the south aids of the port is out off from the rollways. On the north side there are cut of from the reservey. On me secus size successive stations, but this does not really meet the case. What we would like to see for further extension of leading from the staps muo the railway tracks. New for instance, when the station for the Great Seuthers. Ballway was built on the north ands everybody through!

that that was an entergous asiromon, and that it would be a great alternative instead of shring to brang polarization per the transportation of shring to brang polarization per to Kingshedings to ment indeed to the Corta Wall.

288 - Fe that the East Wall selsion 1—It is on the North Wall.

North Wall. There is no eyel the one retainer in the Santa Wall in the North Wall. There is only the one retainer has been dear to the contract of the con from the quay up to Kingsbridge as to put them into the Great Southern riston on the North Wall and

Chairmon-continued. pay the radway charges. In making a case for the extension of the radway to the other sole of the quays —the south side—we want to aroud that potfall. We don't want to advocate such a scheme as will leave it a man question as to whether one would bring the staff

a miss question as to whether one would bring the staff up to, any. Harcourt Street, or put it nite the station as the Strik Quay. We want, in other words, to so destine stone, the whole por the isolating into the ratio-staff or the staff of the staff natural that if the facilities were there that one would put the goods on to the Dublin and South Eastern pre the goods on to the Dittin and South Eastern somewhere between town and Lausdowne Read. We have to go to Harcouri Street with the goods becames this company has no goods by their passenger line. Then, or, the next point that if with to deal with is the question of the crame swalphia.

Mr. Hances.

320. Where—it we don't less that the North Wall. My dark now way large pitcheglant mechanics. We have a seen and the proposition of the North Wall.

Mr. Hances was the hipping company data or cranstion of the North Wall.

The consequences was after what is wheth to send down
a very large shaft of my to put the critics on to the
avery large shaft of my to put the critics on to the
proposition of the north Wall.

The consequences was after which the week of the

The consequences was after which the week of the

The consequences was after which the week of the

The consequences was after which the week of the

The consequences was after which the week of the

The consequences was after which the week of the

The consequences was after which the week of the trans-Mr. Hoppen

make is that better use chould be made of the imme-vays. As far as possible they should be linked up-with tha quays.

330. What is the suggestion:1—I heare the schatte to be worked out. We want the quays and the transcays to be linked up in order that goods might be put on the transcays and distributed through the city and

Mr. Lindson.

Mit. Lindsay. Inked up with the transway linked up with the travely—loo, for goods. The next point to make in exactly—loo, for goods. The next point to make in exactly—look would are getting and one chapter and high would are getting in direct estippes and it is another not hande so being in direct estippes and it is another on high sectors they have in chairs place. The technology, on second of the high cert of partial and to be disablayed three, and to come secrets on the consecutional object, their maning the cost of goods to of extincts (fedicise in lanking up erespiring an disthe whole delivery. We want me need use or se more of existing facilities in linking up everything in distributing goods both to the city and the surrounding districts. I think, six, that is all I want to say.

Chairman 332 You want the South Quay binked up !- Yes. 333. How site you going to link them up !- Well. I 255, stow are you going to link some up--resp., a den't want to centire a sebessio, but there have been abscured illectured for years. I am not an engineer, and I det't wish to say one acknow is better than another. I only want to excell an ecoronicus solving which will out so much for translipping the goods which will cost so much for transmipping the goost or rather handling them on to the main line that we would be no botter off than if we certical them from the quays. In other words, I want to chappen the dis-

quays. In teace worms, I want to changen the dis-tribation As I am not an engineer and have not con-scienced the mater from the point of vow of all the Une, I could not, of course, make any statement as to life, I could not, or comments as scheme.

334. With regard to the discharging of your plants are went of discharged 1—On the North Quay.

335. How many coarses are there, on the quay!—I cannot say the number of crosses. I have of no cross.

and where cools are brought in from the One. control may the assumer of crases. I Ribbe or no crass, or the quay where goods are brought in from the Cas, these sufficient to take our glass out and put if on to our flash, such as the London and North Western have 250. I unferstant they have several crass in the port. You have a cue handred-ion crass figure 1.

one would think of shifting a vessel to get a couple of one things out

350 You have several five-ton cranes I—Yes; and,
of course, the Lendon and North Western has great
incritises for discharging.

critices for descharging.

338. You say you would like to see the trains leabed 338. You say you would like to see the trans linked up with the quays.—Yes.
339. Have the transvays authority to early goody!
Yes; because they do early poody. It fait. They take grewel frees Howsh over the tentimeny system, and deliver in to the outlying subarbe. What the difficulty would be of beinging the transvays down to the quays.

Mr. Houses.

over, was not the greend in connection with the name ternance of their own permanent way find that they have an Act of Parlianent limiting their powers 34t. But when they carry gravel or maternal of that kind, is it not for the maintenance of their permanent way 1-20.

Chairman. 343 Do the tramways take purcels?-They do, and deliver them very efficiently; but that is from the

tendors in the cuty.

Mr. Lindson. 363. Do you mean to say that you propose that the transvers should go down alongsale the quays and take goods there and deliver them around Dublin 1—You and the suburbs.

344 This is an individual idea !—I think it is very

extensively done in America. 346. In the States the trans run for miles. They are more like railways I—Yes, and the railways are like transvars. They are not fenced in by great street. 346. Have you any instance in the United Kingdon

where street transways have collected goods alongwish steamers and delivered them i—No, but it appears to e a common-some arrangement
347. You might do it with motors !— They would do 50. Yes might so it with motors !- They would in for parcels, but when you get to 10 or 20 tons the trun-wars would be best

ways would be best.

38. There is another point. Yes said that yes brand it changes to carry goods from the North Wall.

No, bot I said that there was very little difference.

No, bot I said that there was very little difference.

30% Too led up to that by swring that when the line parton that come that there was very little difference.

30% Too led up to that by swring that when the line parton that a considerable saving would be effected large.

or. 399. That considerable saving has not taken place!-No. Could you give us the difference in rates in my X61. Could you give us the difference in North Wall and

goods you life to take between the North Will and Kamplandige, or that we noted to so that was the action fraction of the control of the control of the control bridge I—Just before I cause howe I maked for passe of our ratio conts, and conformately we ded not have got and that the first control of the control of the con-trol of the control of the control of the control way to Kimp placelyse would in the onlineary comes have 1500 Year income 26 cfs. more a four as a certain class of poods I—No. I put that around reveal with diff-

dence 333 You said that there was no communication between the Dablin South-Restern and the quayst-between the Dablin South-Restern and the quayst-Well, here is what I mean. You can get on to the Dublin South-Eastern by a roundabout route from the Bubbin South-Eastern of a round-cover round liver. North Wall, because you could get on to the Great Northern and than across the Itep line to the South-Eastern, but on the South Gusy there is no connection with any railway. What I meant was that Dablin is a one-sided port so far as railway familias are can-

a discourse government of the one side were sufficient to handle the traffic b-Everyone who is on the south side in at a disadvantage. They have to go on the north ride or cart goods to the north side. on the north ruse or east goods to the norm same.

385, No ships go to the usuth side owing to the lack
of radway facilities !—They have to come to the sorth
side, but they discharge at that side at a disadvantage owing to the want of railway facilities.

Mr. DOCKRELL

10 September 1918.] Mr. Lindsey-continued 375. We earmet go into that, but I gather that you want to see work done no moster where the money comes from I—Yes, and everybody concerned made con-

386. If goods are being landed for the purpose of being used in Dublin and are landed on the north side leng uses in Dublin and are langed on the north side they are put in sagons straight savay !—Even at the north side you have cartage to the station, and I sug-gest that it may be possible to further extend the lines been the station on to the quays.

from the station on to the quays, SST. Do you mean to any that beats on the North Wall cannot load into wagens !—Only at certain points Colonal Gretton.

unloading on the south side, you say that weach you and the south side are at a disadvantage?— Mr. In pegard to the south side, you say that wessels See Why !- Because they must cart everything on to a milwsy unless the goods are required for Bublin. Sec. I see. What you want is a lime down the

Yes. From the direction of Kingsbridge !- Well, got green the enversor or amproved Heal, of corns, I prefer not to say where. You could run the line up to Kingsbridge—that would be an sical thru—or we could switch it on to the South-Eastern I don't want a great bug station that would take up a let of reem and that nothing would be gamed by

Eastern I—Well we don't find it impossible. We have to get if done by home handlags, but we think it could be now institute on the property of the could be now institute on the could be now in the SS. Ournup bask to the North Well quays, in the difficulty there that you cannot get railway wages alongues the seement I—Only at certain points our that he done. There are circlain points on the north spit to which you cannot not unrows as all this so once, there are circum points on the norms sale to which you cannot got wagons at all, as your complaint the look of a sufficient number of powerful crasss and mostfactest realway solings 1—Yes, 255 That it the summary of 187—Yes, that is the

summary of it.

305 In regard to the suggestion of using transways
to distribute heavy goods, how do you propose to
deliver the goods from the transways into the various
stores and other points 1—That would be a matter for secon and other points — this would be a master for arrangement between the parties concerned. If they had sufficient traffic I take it the trainway company would have spor lines into the larger stores. If not, 367. Otherwise the tram lines would be blocked !-

ns.
268. Are the tram lines sufficiently heavily con-irpoled to carry heavy braffs !—They carry very heavy SEA Are the train lines sufficiently measure over simpled to carry heavy graftle in-They carry very heavy truss on scope of the lines—on the Dalkoy line, for situace, there are Ser 10 fron fracks.

369 Fire tone is the ordinary me—Tex We would the six opportunity of presenting our case more fully on a future occasion.

Chairman.

the shubuilding

370. I don't know that there would be anything that you have not told us. Mr. Deckrall?—I don't think we knoe covered the ground by any means. 371. When we get back here we may make a point of asking you to come before us again 3—Thank you.

Mr. Zundsoy. No. Mr. Dockrell, is it your suggestion that the State thould do mousthing to help the development of the Port of Dublin! Would you approve saking the Transacy to assist the project!—Really I would his to see a choice worked out and see what we could do

to be a bilitime received was and see white the belt considered.

NO You don't ask for financial newstance b—I am altend some would be necessary, but I would like to see all the parties concerned financially interested in my scheme of development that might be agreed on. may scheme of development that magne be agreed we, we are in a peculiar position over here. I suppose, as I have such already, we are in a viscous curds. For will here to got as out of the circle. 350 Why should you receive financial amirtance curro than Beffast, which is also once here!—I think

course arous — Ten, and every rooty conversion hands con-sunting parties to it, so that we won't find we have get the wrong scheme after having spent a lot of money. 370, Is the Peci of Dublin ever congested and the fendition numificant to deal with the centic without un-

ine dolsy! Vessels have sometimes, I understand, to make outside to be discharged, but that does not come

wait outside to be discharged, but that does not come-within my premodal knowledge, so I would prefer not to say sayding about 18.7. Are they week to the special cargoes or general 377. Are they week to the special cargoes or general 378. You say that feedbries earth at certain points on the North Carry for hearding earth at the special cargoes. 378. You say that feedbries earth at certain points on the North Carry for hearding earth natural points on when you get beyond that practically the vessele cannot go anywhere clear. Has that occurred in your experi-

gence)—Yes.

378. Does it occur frequently!—It has not occurred
on most smoot the war broke est. The volume of traffic
I take it, has not been so great except in respect of
certain frems. It undeathedly did not exist in past

360. What was that—grain traffic!—It would be probably the ocean-going traffic, and probably grain.

Mr. Hos

381. Now, I think the Committee would like to know what sort of public opinion exists in Ireland in ente-once to problems of the kind we are investigating. In it is led that bodies like yours from time to time escriptionly consider from a constructive point of view questions of this sort?—You questions of this lorb!—100 382. What sect of representations do you make about them!—Well, there is probably a discussion on the matter, but beyond puting the views of the Associa-tion before Parliamentary representatives, I am almost

there is no other means of having the suggestions we make arred eat. 383 Have yet any relations with bodies like the Chamber of Commons—Well, I am servy to say that we have not follow in the John Market of the Commons—well as the Commons—were the constraint of the Commons of the Comm

melanting positions in the pass.

Department of the pass of the pa

teini. effort — vas. 387. Apast frem agriculture f— Vas. 388. And apart from the North of Ireland f—There is. 330. What is your general procedure in the Dablin Ludmérial Davelopment Association i— We have a Council which most ance a week, and our yearlow hays Council which mosts more a weak, said our practice has been, whenever any matter crops up, most as this inquiry, to appoint a sub-committee composed of people who know most about the subject. They would try to bring in people from outside to advise them, and aftermorn's present a report to the Councill. The Council would consider the report. That wend be the coffinery procedure that we sould adopt any invoged erdinary precedure that we would not possible to a matter of which we had got long notice.

110 September 1918.7 [Continued. Mr. DOCKBELL

Mr. Henres-continued. 300 Would you adopt that procedure regarding this Sub-Commettee and let us have a report before the

Mr. Field. 301. You have been President of the Assecution years sail, Mr. Dockrell I—Fes. 332 for it a fast that this industrial movement is practically epositing all one Iraliand I—Fes. Three are branches in Ocks, in Bellion and other places. 353. You are aware, of course, that enthforces have been held in connection with this development from-

ment in practically every city in Ireland !- There have been exhibitors held been exhibitors hald 394. Is it your view that public opinion in Ireland is fixed on the question of industrial revival in this country to an extent that it had nover been fixed before? —We balieve that if we don't keep on our legt we merer will

new we mere will.

305 As a nation of fact, in our Association—because
I am a necessity of the Guszel—we have a number of
the manufactories of Dublin—Lyen.

305, And a great many shopkeepers—Lyen.

307, And every-body undersucted in industries is represented on the Association—Yes I must say that
there are bothen such as the Ghausher of Gunneces and the Mercantile Association working on different lines. We go in more for the fevel-present of injustrus. The

Chamber of Commerce-

Mr. Full-contracted. 308. In more aristogratic !- You don't expect me to 335. In more uniformitic—1-04 don't expect up to don't that, Mr. Pield, obtain 4-1 dish it day age to 339. And it has be Pield, obtain 4-1 dish it day age to 339. And it has been to chamber of Commerce 1. Mr. Field, I Yes. Be is a publical preserve. Mr. Hasnoon, I Yes are a member of St. Mr. Field, I They got me out three times. Fifteeast They brought has back again. Mr. Field, They brought has back again.

Chairman 400. Boughly, how many numbers have you, Mr. Dockrell, in your Association !—I am alread I could only gases. An many cases there are associations affiliated with na

Mr Honson.

401 Will you send in a full statement laker on from your Association?—Yes.

Mr. Floid, 492. I know as a member of the Guncel that they was not tone to fully consider the matter, and it is important that a full statement should be handed in mobilal of the Association 1—Tes, we shall out in a statement. I membered in my evalence only a few of the prints that we washed to bring before the Sol-

My Rosent Wonversorox, Re-Examined,

453 You wish to add something to your evidence of yesterday, Nr. Worthington 1—Yes, Bir. I did not consider the question of traffic. I was under the impression that so far as the Transationata barboar was concerned the inquiry was limited to selecting the best site for the Government to subsidise; consequently, I site for the Government to substituse; consequency, it old Not container in necessary to go into the question of traffic. Without a Government grant or substitu-tion to a Transathlatic gost in Trained vanishing. The Government gave a substity in 1887 of 278,000 per saturn; Felland subscribed \$300,000 and lest it in attimit; Iroland subscribed 4200,000 and lest it in consequence of the subsidy being withdrawn. We con-tend that this is an Imperial project, and was so considered by the Imperial Conference. See their

resolution stating so. 404. We know all about that What we wanted more from you yesterday was an idea whether you sag-

Chairman-continued the best herbour because it is close to Dublys. If Blackard Bay were selected there would be 80 miles additional of railway carriage. We also think rulway companies would give special facilities for being ing traffic to and from the West of Ireland. We also onesider that the short was voyage—three and a half days as compared with Liverpool six days—weeld enable a greatly reduced ocean traffic rate as compared with Lieurpool. The Galway people want me to go down to Galway when you are sitting there, and Lori Killanin is anxious to address you. He were a

pecaphlet on the subject of Gahray as a truncationtic Me Field 405. Can you arrange for Galway people to meet at and show as around and gue as all the information i— Yes; I will get the leading more banks of Galway to be present and to give you all information.

406. That is what we want.

Mr. F. A. ANNERSON, Secretary to the Irish Agricultural Organisation Society, Examined. Chairman-continued

Chairman. 507. Mr. Ander C. Morrenon.
507. Mr. Ander C. Morrenon.
508. And C. Morrenon.
508. And C. Morrenon.
509. And C inland transportation, and there may be some sugges-tions worthy of the consideration of this Committee tions worthy of the consideration of this Demantice which I discovery I can got formed in the form of a written memorandum which might be concernably 200, I yearned you read the Expect of the Occasis-sion on Inland Transiti—I am airsad I here not. It know in a general way the trend of it, but I have not stuffed it closely. I suppose the question of railways is not one the most important. is not onlie the most amportant.
450 Culy in so the set they may be insufficient to early the present traffic of Ireltod = II I might offer a suggestion to the Generalities, it would suprace to me that at this time, when all the railways of Ireland are being controlled by the Generalities of Outside Committee, it might be possible to thy experiments that in proceedings the meaning of the control of the contr

the justicesy of the various companies would make ver the judicity of the various companies would make very difficult of accompilation. It for example, I know two toward where two radiewy companies have separate to the other, and where have such size of section to the other, and where have such size of section to extend to each offier the country of training power, and I really fithink that now the fitted is managing rul-ways experiments might be tried with advantage on raginal to general reasoning power, translational regions of the country of the country of the country of superior of the country of the country of the country of superior of the country of the country of the country of superior of the country of the country

single in greener resump power, unemproved to a the par-GL. As the good breathered as well as the par-sisting of rose places as Novas, Coun and Alabor-tons, of these is a rose of transforming dis-tinct of the places as Novas, Coun and Alabor-tons, of these is a rose of transforming the indicate of the places as Novas, Coun and Alabor-tons, of the participation of the country of the country rose of the participation of the country of the country rose of the property of the properties of the country rose of the country by the transportion of the country rose of the polyment of the properties of the country rose of the polyment of the places of the places of the places rose of the polyment of the places of the places of the places the polyment of the places o

Clarents—continued to the clarent continued to the continue the continued to the continued counts don't, try to develop production Well, I don't know if the Committee is considering this quesgort know it the Committee of ports in Ireland which it don't think would hear the expense of a railway, and which I don't would need a railway. Thus places could be linked up with the railways and the railways could be linked up with the ratherays and the ratherays thereasiers field by a peper system of nation transprors and as well be possible after the war, when no shock arrow which can be deather in the property of the carpiton which would require the property of the strength or rathera which the property of the best quarte as frequently of the country are but sent that reads it many parts of the country are but heavedy body, and some of a through a set in the rathera of steam rolled have now been allowed to get into a bad condition. Apart from motor teaffe, horse bunkage to condition. Apart from motor tealfs, zoron husbage is impeded by had roods. The sever and bear on herees in heavy, and so with the vehicles, and the time tea-hed in carding from the condition of the time tea-per and the condition of the condition of the con-traint to the condition of the con-traint roads, but also the hyr-cand, if think these tow-aggestions I have made cover about fill the ground. There is much and for being head of the con-traint roads and the condition of the con-traint roads and the concommission of how make more about 10 the record of the control of belonging to other cars are substituted for the proper secs. The loss of case is so considerable that a number ence. The loss of case is so considerable that a number of people who weekly have observed seven costs with the milk to Dublish have become so dispersion with the lease that they have had be station that yetches to continue to sent milk. Uses measurement of difficult to process and apo very man are entreastly obline are weld; now east a match as \$6 life, and if is almost impossible to get them even at that price. All the British firms that used to make these cans are now engaged in manition work. We have to get most of our came now from Copenhagen, and that is very of our came now from Copenhages, and mate in very efficial. You have to present a permot, and it takes months before you can get the ear. I might just mustice for the information of the Committee that this co-operative agricultural movement of our embers about 120,000 members, recighly speaking. There are over 1,000 socioless, set the nameab bride formeres and this year careed £00,000,000. It began

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Cherman-continue

Mr. ANDERSON Chairmon-contenued. 4.6. In more were proper names as yet make an element would go about 1—Yes.
4.6. In those a difficulty about delivering from the cands 1—Yes, and there is where you want the system of motor levries as feeders for the cand imite and also for distribution. Of course, it is quite possible to a community of furnors to have their own motors. and a termine of them have. A sumbary have textory. In Debast Affect we have a good number of excellent and the product of the control of the and a number of them have. A number have tractors

the same thing.

SELECT COMMITTEE ON TRANSPORT (IRISH SUB-COMMITTEE).

about 30 years ago. Sir Horace Plunkst started it, and I have had the privilege of working with him from the beginning and I have earthful it gove up. It is measured which I think is likely to lead to tremen-merement which I think is likely to lead to tremenconsequence of the second of the part of the second of the nonintive,
412. Is farming kept back through lack of proper facilities for transport?—Oh, undoubtedly,
413. If there were proper facilities do you think the

in the motor transport system which I have

Mr. Zindsov. 415. Is there any case where you can take through bookings on railway and canal in a through bill of lading!—I cannot answer that, but I imagine you I den't know myself.

J. Musars.] I am afraid it is not the case in 217. General, I am alone, in an interpretable.

Mr. Paling MocNully, I No.
Mr. Lessings, I You can send goods from Beliast to Bublin by the Great Northern Realway to hand them over to the Grand Canal to take them. The freeght is paid to the Great Northern.

Mr. Housen] You mean there is a through rate. miliding railway and canal.

Mr. Zendovy | You do get a through invoice in this Mr. Zéndovy J You do get a through succee in una particular case, or a through charge. Mr. Fádd.] I never heatd of it Mr. Zéndaw, J As far as the ordinary commercial transaction of paying treight is concerned, it come to

Mr. Field. 416. Is it your opinion, Mr Anderson that the present system of transport, either on the canal or the railway, is insufficient and is handering the progress of agriculture in Iteland i—I'es, I abouble say so,

412. After 50 years' experience optimizes — Yes, it is cognible of greek unprovement.

415. Therefore you think a good time for a 145. Therefore you think a good time for a year of the year of year of the year

Continued.

is positions to try to,

620. Are you of opinion that the canals could be more
fully utilised for the conveyance of agricultural produced—You The could that in alongsale the Milliand
Railway is concept to make you werp.

421. Closek?—Practically closed—unused, at all

422. Council.

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Mr Avergoov

Mr. Picts-continued

422. You said, I think that the waterways in the suite of Iroland have never been fully utilized !-483. You think that ought to be developed?—Yes.
480. With regard to motor traffic, are you of opinion
that these chosp motors—for motance, like Ford's—
would serve as collecting and distributing agents to a
district where a railway would not pay 3—3 on.

district where a railway would not pay!—i do.
485. And you think the Road Board ought to look
after making the roads sufficient to bear that tenfle i—
Yes, undoctooily. Take the case of Helmullet. That
is a case where it would be impossible to raike a railway that would say, and the possible would be quite
estigated with a system of motor trainsport and good

rouls.

426. The point about milk is very important, although probably some members of this Guirmittee may think it is more or loss outside our functions. If you don't feed the children you will have no one at all by and by This is a very crying want in Dublin—the difficulty of precuring milk — Yes.

the difficulty of presening rath 4—Ne.

67. About industrial sletchil, do you thank that
sught to be allowed by blaces in order to sletc the
sught to be allowed by blaces in order to sletc the
sught to be allowed by blaces in order to sletch the
sught you can profibe inside. Foliall the law recently
there is of laking up formacy, and the tennage
482. And you have any quantity of politics here to
profibe that industrial slotchil—Far.

482. And you have any quantity of politics here to
profibe that industrial slotchil—Tax.

583. We have no chance of politics.

Fargard vanis is Che the sarkey stellie be utilized in
England vanis is Che the sarkey stellie be utilized in
1 keg detauses.

requel to the milk supply re-Yes, ms not not conying it long defines.

631. It claims the milk - Yes. It is very much easier in his weather on railways to province chilling facilities. Even if you only use wet claim on trooks with open sides that keeps the relatice very cool. These are miled "tatings" in India. The evaporation keeps

the interior of the van cool.

438. I have seen milk coming into London by motor core!—I darway you would, but if think in Ireland 15 would hardly 69. Mr. Lindson

435. You referred to separate radiusy statems. You mentioned Cavan, Navan and Athlone, I think!-454. There is only one station in Cavan. There is a physical communication I—15 is not so in Navan. 456 As far as Athlens in concerned there used to be a train running between the two stations if there

be a train reaning between the two stations if three war any posteriograph, for I understand the number of passengers was all that it was discontinued I—I passengers was so small that it was discontinued I—I will tell you make a glating instance. A member of our staff who was in London in connection with the Alimentry of Flord had to come book by Roosler. As a Charlest of Policy of the train that was to have a complete in that to Delhin ran out of the station. That man had to lose four issues valuable 'time. That only occurred the day before yesterday.

only occurred the day before yestebusy.

456. That is the same station 1.—Yes. That makes it 437. You spoke about manures coming out of towns?

—Yes. 456. Was not that discreasing very much before the war with the increase of motoring?—I discount it would 452. There is one difficulty in connection with that in regard to canals. You could not use the lighters for anything deef.—That is so. And you could not afterwards get return cargoe Have you looked into the question of canals used in England for agreedingal purposes?—I am not familiar

with England. I have never studied English agricul-441. You suggested at the same time that some of

Chairman. 403. I suppose you have read the Minutes of Reference !- Tes, Ser. 463. We want to find out as for as we can the faciliMr. Lindson-continued.

the navigations in the Millands might be used for agriculture i—Yes.

442. The Shannen is about as fine a waterway as any in the United Kingdon i—Yes.

[Continued.

443. It is absolutely in good order le-Yes, but there

are no boods on it.

464. I think yes want something more than bents!—
The whole thing has get to be considered as one big problem. You must not take it processes—the boats, railways and essels, so more than the Shamon, where agnesitional produces would come from!—There must be 440. It has to go to fairly big places !- It has I think you could use the Shimmon very much.

Colonel Geetten.

447. In repard to milk, has your Society any in-formation as to the predoction of milk in Ireland — Of the quantity of milk predoced? 643. Test—Fren memory I cannot give you the figures, but if the Committee desire it I can give an 449 Is the production in excess of the Irish demand?

-Yes, because offerwise we would not be able to expert butter and choose; but there is going to be a very serious shortage. There is a shortage of free to 35 per cent. now as compared with last year, 25 to 35 per cent, now as compared with last year, and the artheroffice here are consemplating topping the emport of miles cown. In the winder have deeply of milk is not nearly sufficient for the node of the population. That is, of course, unfootnate, of the population of the Rocket by Course the production of butter and checos t—Yes.
450. It is the ports and cathesy ficilities sufficient t—761. Are the port and cathesy ficilities sufficient t—761.

Three is a good gross-channel service between Ireland and England. We have not so much to complain of and England. We have not so reason to compount of 482. From wheth peints I—Dablin and Waterfeed and Rosalaro, Belfant and Cork. There are very fair facilities. These were sense complaints, but on the whole the arrangements were good. Mr. Housen

455. There is a very close relationship, of course, between the directopment of any kind of improved feedbase for transport and the economic progress of

inciding for transport and the economic progress of the country as a whole—Yes.

664. In it not a fact for a long series of years a steadily growing movement has proved that Irishmon can in combination increase production very largely? -Yes. And is it not a fact that organized agriculture 605. Abd. in in tore a task staps organizate agreement in Srelands be-only in being maintained without regard to the very great variety of schools of political thought in the coming with great efficiency by the famoural CHRI is the only increment in Ireland unboached by the present political situation. It embraces men of the present political situation.

the property and were creed.

486. I am putting this question to you because I want my colleagues to understand that Irishmen can combine for industrial ends — They can and they have

ditie on.

497. And the co-operative agricultural movement in
Ireland bus from the point of view of the value of the
cutput increased from a few hundred pounds in 1889
to about test million pounds to-day i—Yes. 456. And the movement is steadily growing !-- Very

450 And recent events in this country have not affected the continued growth of the movement?—No 460 And to-day you find no friction as between very ing sections of political thought in the movemen Bieill — No.

486. I think that is very important—that, notwith-standing political whirtwints, there is any great more-ment that more or all the time. This movement, Mr. Anderson, is endtely due to 81; Horne Phashot and your own conspection with his effects!—I simply carry out the directions of my Ourmitine.

Alderman James Monay, Chairman, Dublin Port and Docks Board, called in; and Examined.

ties for transport, and we would like to hear from you what is the condition of things here!—There are sarious developments which would vastly expedite

Alderman J. Moban 10 September 1918.

truffo-extensions in various directions. We have a corisin amount of equipment which is quite up to date

occión monat di equipment shach is quite up to date at ha pert. For relation, I may mention that we attractificament proposition de la consideración de to attraction de la consideración de la consideración monatorio de la consideración de la consideración de development of the pert prope, here are entires titings usign zonda. We most show a tres-tem sugle zonda. We most show a runtivad la dor-da de la consideración de la consideración de del consideración de la consideración del consideración de la consideración de la consideración de de la consideración de la consideración de la consideración de de la consideración de la consideración de la consideración de de la consideración de la consideración de la consideración del de la consideración de la consideración de la consideración de de la consideración de la c

facilities on the Alexandra jetty.

664 The Alexandra jetty, I presume, it under the control of your Board 5—Yes.

My. Hannes. 605. Is that on the south sode of the river?—It is or

the north side of the river. Possibly it might facilinon relations II gove my vicers in chromological order. Our dry deck sociation-dation is by no means white we require. The extending deck, if templeans by some fit is, would possibly some means which are the contract of the social section of the section of the social section of the social section of the social section of the section of was \$40,000 worth of work on her

Colorel Gretters. are. Which is the dock you are reforming to i-The

666. Which is the dock you are referring to i—This graving dock—the only one we have. There is great talk about simplessified now-days and extensions of singing yards. We have done a good dast in that way, but, in my judgment, it is intile to go further until we got additional dock accommodation. We must have an additional dry dock, say of 600 fs., that down a machinicoal dry dock, say of 600 fs., that down a machinicoal dry dock, say of 600 fs., that down and seem of the form of the dock of the down o convidention of a spur whari is absolutely necessary for the fitting out of ships when launched. At present consideration of a spar wharf in shouldely necessary for the fitting out of shape when luxunded. At present there is no place to fit out a skip properly. So, sent from Jack to Jill. Six is turned about and there is any amount of time lost, and time is meny in allip-bulings. With the spir when described the day dock it would make a bit of difference in the output of the port. I have always just the property of the control of the port. I have always just the property of the control pre- 1 mass already mempered use ossimistilly of having a new graving dock. Thes we come to the south saids of the river—to the synthem quays. An excessors sum of money has been spant by the Port Board on developing these quays. I than't say it was visely spent. I am rather inclined to say that it was wholy spent I am rather inclines to say that it was the reverse, in view of the inct that there is no rail-road accommedation of any sert, and until such time as they link these quays up with the railway system, on my inig tasks quays of what the range of room in in my indigment, these quays will never get more than 15 or 30 per cent, of the shipping which they ought to get. One thing that would be of supreme imperiance get the thing that would be of supertic importance would be a termal nutler the river, or, as an alterna-tive, a transporter bridge. Thousands of people have to walk long distances to get to their work, and there is but there-keeping. As a consequence, thousands of here two or three mike to walk. That is a serious loss to the port. If we had a turned in that section itse loss would be avoided. We have spent usurly loss to the port. If we had a turned in that section thus loss would be avoided. We have spirit usually three-quarters of a million on main desinage improvements, but up to the present the section we are discoming is left severaly alone to a great extent. Sewage has to be pumped into the city and then pumped out again to get ocross the river, and, finally, to the pump-ing sintion at the Pigeon House. If you had a turnel across the grey all that pumping would be saved, and considerable expense would, of source, be arounded.

467. Where would you propose the tunnel being

15 Was £50,000

463 Have you had any estimate !-! beliave there is an estimate for the work. I may be able to get you the figures. I know that there was an estimate for a comparairedy small teamed. Speaking from memory,

Mr. Field.

460. I den't think you get an estimate for the hig tunnel?—I think the Ortporation get one. That is one of the great advantages that would secure from a one of the great advantages that would secret from a tunnel-enormous labour asying, and giving the people thore an opportunity of living on the senthers sole. It would mean a great deal to freshlown and Raspunds because fifter as hard available there for people. At present it is subsect for wood-raising and such-like persons, and is not vary productive, and that lead purposes, and is not very productive, and that is no would undoubtedly be developed and put to a better purpose if you had direct communication. Wherever on have hig menafacturing plant you must electric you kare hig manufacturing plant you must electro-power, and to complete accessfully with your natio-iouss you want theyough must be not proved from power. You have at the present time a Corporation power-boxes, you have a transvery power-boxes, you make power-boxe, the Learn power-boxes, the sation power-boxes, and the Great Northern power-boxes, and the Creat Northern power-boxes, the Sation power-boxes, and the Great Northern power-boxes. non-new an inner one-horse concerns instead of having one central plant that would supply the lot and supply them at very much less than half the peasant con-Another thing that would tend very largely to develop-things at the North Wall extension would be either the mitrodesition of a motor-bias suprice or the auter-tical supplies. sion of the transvay service so that men could get sees of the treasway segrees so that use could get rapidly to their work. Another thing, year's worked on the same lines as in Bellisst and other places have a spould number of care in the working bours. If that were dong, I believe it would have a very marked that ware dogs, I ballers it would have a very nouted effect in average time, and consequently more work could be doto. I should like to say their while Alexanders extension is in some recopeous modern, it is also in some easyeets obsolete. When the extension was constructed it was quite up to date, but the modern whipe in three days was on the foldule area, proba-forday they are untilly different to the contraction. practically square—with the result that our extention is not suitably arranged for them

470 Do you mean the breadth of the berth?--mean that there is an off-net, and the result is that the new-shaped ship, which is practically square, the new-enaped stap, weach is practically square, is cortain to get into trouble unless you are very careful in the handling of her. There is isruble there for the deep-water ships of which I have been speaking. There are only two ways of avoiding that; one is to try to get this and which causes an obstruction awaytry to get suns and which causes an consecution Ampy-if is a matther for engineers to decade whether it is acte to do so or not—and the alternative is to build a jetty in trent of the projection. Then you get any depth you want and there is no obstruction

411 You could have an open whart - Yes. The vessel would lie against the jetty. The jetty would be to secure this projection of therewise the thing is all right. There is a risk at pessent for deepthing is all light. There is a risk at possum for deep water resuche a flow vater. At this water it does water such as flow vater. At this water it does with the Georgensenia in composition with a gave relative with the Georgensenia in composition with a gave rela-tion. A bit of letters have passed between us the control of the control of the control of the control powers at present to the extent of 250,000 it may govern a present to the extent of 250,000 it may be found in the control of the co once my toarn to agree to expend that sum right away on the construction of a new dock, provided the Government found the balance, and we pointed out that it could be constructed so that it would need Admirally requirements. That offer has fallen rather

272. Here such do yes think it would have taken to construct thin new dock — Probably on much tools. 473. What was to be its leaf to the construction of the construction of the construction of the con-struction of the construction of the con-tributioning that we made this defer, and I may tall you that, having regard to their financial position, my based were not known on with the work either It took a considerable amount of personation to get them It was a considerance amount or permitting to get them be make the offer, but if has not been accepted. It need not tell you that a graving dook as an investment is not good beniness in the strate sense of the word. You zeror get the inferest on your memory. It is four the things that accrue in other waxy you much appear as

474. But

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474. But it works in with the port !- Yes; and that is where you got your money. It is not out of the Sook. In connection with the spur whart II is asse-lately essential. You are bound to start in April of next year, but we are not bound to finish it until we can afford to do so. I made an other to the Govern-ment to put it in hand forthwith and to employe it within the year provided always that they helped us. However, which has been done about that. In connection with the epur wheri it is abso-However, nothing has been done about that, 475. What was the definite proposal you made the Government on behalf of your Board "--We were pro-pared to start the work now provided always that they pared to start the work now provided always that they contributed to the cost.

476. Did you get any reply!—Xee, lets of replica, but nothing definite has been done. There are so many different Departments that it as very difficult to get things done, at the other such, from here II there was a Control Berrow here where local affairs could be handled it would be little are histories very consciously.

Chairman. 477. Have you had congestion here?-What do you mean by congestion!

ANR Where you have got vessels warking!—No, that metry happens here.

4W. If you had greater accommodation would there
he sufficient work—Yes. If things were handled to group Dullin should be the distributing post for groupy Dullin should be the distributing post for and terring the ships result questly when them come and terring the ships result questly when them come in, and not keeping these there for days, that formess will be becapit to Dullin Pert.

480. If the Georemonte and you in connection with 400. If the concentration are yet it con-tent in provincing to the we suggested, would you have to get money by houst—We have horrowing powers under our act of Parlament, allogother about \$250,000. Any mency supersided in suggest of this sum yould have to be expended out of revenue, or increased

hereroting years would have be by possible.

If, Tow used query flowers contact, I presents in the contract of the process of less to say, I wrum wooms in conting better were forthcoming.

488 Have you many travelling concess at the perilour perix a fairly well equipped with selectical cranes.
We have 11 travelling coance.

485. These are 5-ton cranes I—Yes, and one 100-len

485. They are fewedling cranes I—Yes. They go the

Mr. Henny 667. I suppose you have been constantly making representations to the Government about the port! escalations to the terremons about me porte-As Chairman of the Board for the last 18 months & What Department do you bembard! — The 488 Has the Chief Secretary been tackled about this?—Mr Duke was very sympathetic. 490. It is the quality of the Chief Secretary to be sympathetic! —I am not laughing at that statement at I am perfectly smoore in saying he was sympa-ic. He meent to do what he could, but he never Mr. Field

460. That is a feature of all Chief Secretaries !-- I had the present Chief Secretary, Mr. Showt, down at the port yesterday showing him over the "Promited Land," and he realises the possibilities of the port

402. What was the date on which you made your proposal to the Government!—5th February last.

Mr. Hannes-co

485, Sarely you must have received 485, Sainty you must not receive your feet from the questions after more forward 1—Yes.
484. The reason I am putting this question is this reason to jellow the peculiar trend of the official mind us breased in dealing with a definite proposed make by a public body? 3—The work would be two parts completed

poblic bedy ?—The week would be 190 parts compacted now if they had acted on my suggestion.

Mr. Frield.] The efficial mind does not work at all. That is where the difficulty comes in Alderman Mercan.] Perhaps I might read this letter: Port and Docks Office, Dublin

5th February, 1918

Str.—In reference to your letter of the 27th December last (B.C & S. 54 X/X242362), I am directed to sequent you that the Dablin Port and Decks Boost have had under consideration the best means of you immediate requirements of the Admiralty at the Port In the first matance the Board, in accordance with an agreement with the Dublin Dockyard Company, have

an agromant with the Dehlan Dedgward Cimpany, hase matheritation to confered a spar per lay or per adjournal matheritation to confered a spar per lay on more, are not obliqued to begin the work small Agret, 1200, the perspectance therage many done to the fact 1200, the perspectance therage many done to the con-cerning the small perspectation of the smaller than the condition to the inflatitudes warrier or to pressed forward owing to their financed position. It is admirited that the construction of real we what would encounted the construction of real with the small per con-taining and at its orderstood the Asternative recogni-ting great value and imagestance of having the wrist the great value and imagestance of having the state that the state the Beard vanish to prepare to matheriate for to state the Beard vanish to prepare to matheriate for to state the Board would be prepared to undertake the work forthwith if the Government Authorities are wilking to jum in defraying the cost of the save, in yow of the enhanced charges analog out of war con-

Next in importance is the necessity for in the dry-docking accommodation of the post. This can be met in two ways as follows: (a) By increasing the length of the present dry dook by 150 feet

One by 100 feet.

The matter has received the full of consideration of the Board, and I are a state that this important about the state of the period product of the period product of the period product of the period of the per

(b) By providing a second large modern dry dock 600 feet in length. This matter has sugged the attention of the Harbour uthority for a considerable period, and I am to state that the Board is prepared to expend a sum of £209,000. that the nonrous proposed under their Act of 1600, and commanded for the purpose under their Act of 1600, and as the full extent of their Parliamentary horrowing powers for this purpose, if the Government supplied the halance of the sum necessary to complete it, and to The dock, I need searcely say, would at all times to of the stract importance to the Admiralty. My Bond counsier that as the dorth of all to be presented for wealt be sufficient to permit Admirally vessels using

weak to interest to permit Admirably vesses using the dock, combined with the central position of the Peri of Bublin, such a dock whenlid be of the greatest advantage to the Government Authorities.

I am, Sir, your obsdient sevent, (Signed) N. Protte, Secretary Mr. Honson.

405. We would be glad to have a proces of the whole story of your proposal to the Government !- I shall

496. And we would also be glad to have a statement from you as to the improvements you have a susmem-here to-day and the necessity of them I—I will prepare

497, Aud

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Mi Haense 437 And showing how, in your opinion, those improvements would loud to extend the trade of the point? but I have and 5 by or experience in invertile countries, and I do not have why the loop has measuremty could see have been permitted. If dettiegs one of the most bestuful buildings in the United Kingdom—the Outton Histor. If you started your reflicted at Micross and came across the Sermit, where there was

438. What rulesy accommodation would be desirable. A line along the whole length of query 489 In what direction?—You could extend it up

Buce is the plan.

500 How does the port suffer from want of a railway
on the South Quay !—The port suffers in this way, that coal where you have flour

501 What is the nature of the traffic that gots compared - The ordinary traffic of the port, owing to

\$55 Who is responsible for the laying of the rail lines in connection with the docks1—31 is done by arreguences between the isalway companies and the dock and hathou people. They could not lay the rails subject our consent. 534 Had you any difficulty in getting lines has when you want them!—We generally manage it. U

to now we have managed to pull semicably with the different railway companies. There is very little fric-tom. Things could be improved, but that at present is a miror motive, in my opinion.

Of. Have you made say were to go the lines or Of. Have you made say were to go the lines or the lines of the line

That would be for your authority to provide

505. Table women on for your minimum to provide a powerful by now would be rather at exponence time, and as so have get on up to now without it, we do not think it would be a time to expend many in purchasing it unless the Government.

Contrada.

Signature of the state of the sta

would come in and help. If they are prepared to contribute, I am prepared to recommend the Fourt to

get 3), if we can get 46.

902. With regard to the improvement of the emisting graving deels, what value would any Government thepartized get ont of any exposure they went to 1—Thay would get as much as they get when they get of pre cast to the various shipheiding companies to

extend their yassa.

332. In that case the money as a lean and the interest paid !—No, air, it is not. I think whose there is an extension and improvements to existing yards the Government advance 40 per cent of the outlay. My

ferries 512 With regard to trans, have you taken any staps 1—From the transways, it is printically two miles

thing should be done, and in thee way make better

time be kept in the various yards Mr Fide 515. I understand you are in favour of the extension of the rashway on the north side to the Alexandra Jetty I - I am.

516 And also of a realway on the south side !-- Yes. 517. And a dry dock, a tempel and a 'bus service !-Yes
518 You wast greater incilities for the leading and
unbasding of vessels 1—I do
519 Orall's outs strange a varie of this Committee
to the part as a sert of view jury in order to get a
heter size of the position of advants—I would be very
pleased to place my strance as your disposal if you
think well of coming down.

520 I chink Mr. Field's suggression a most excellent one, and I am sure we will earry it out when we return to Dubba. Mr Housen

502. Perhaps, Alforman Moran, you would put in some information relating to your circumstances as a Port Board, the kinilis of your borrowing powers, your comparative position in reference to other Harbour Boards in connection with their borrowing powers, and

Mr. Keating 588 I think it would be interesting if you did make a few observations - Pechaps it would be ketter if I ipplied the information later on (Roirmes | Thank you.

Mr. E. Smackerrow, Barrow Molls, Carlow, representing the Irach Industrial Federation, called in ; and Examined Chairman-continued.

and ports of Ireland; to make apprentions for their equipment and development, and to very such places as they may consider necessary for this purpose. I supposes you are fully aware of the various Reports of the Commissions and Commissor that have set in con-

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ectain with these things !- I have read most of the Becarin, Not. times unings was new reas now to the Beparin, Ser. 1 suppose, speaking generally, you have a fairly good knowledge of the transport by canal 1—Tes. My orations would refer thestly to the canal. I know something about the ports of Doblin and Waterlord, but I

thing about the ports of Donat and Waterport, our a would patter to confine up evidence to unland mangi-tion became I know something about the 550. We would be very glad if you made a statement to us on it!—The system of which I have most experi-ence is the Grand Chind. The Federation that I repre-sent are of opinion that it is undominate to have the sent are of equines that it is undefinable to have the contail outstandies at it is given it. They below that yet contail outstandies at it is given it. They below that yet experient unless same form of control is established different to that with this obtained in the past. The law Communities in their Beyont, on page 64.1 think— the law Communities of the past of the law of the past of past of the law of the bright They are a law of the same when the law of the law of the law of the same law of the law of the law of the law of the same law of the law of port at the tousible we offer from arose from the foot that the consciling authority in the Gorda Chant is that the consciling authority in the Gorda Chant is matures, owns and absolutely outdried the retrievy, makes it wom by above and regulations, and also come takes in the constraint of the constraint and con-traint in the constraint of the constraint and over the books varifing on the sprine. The samulatall over the constraint protectally made as you will find, or or of public newsy left morbe the optomizations at the constraint of the constraint of the constraints and the constraints of the constraints and the constraints and the constraints of the constraints and the constraints and the constraints are constraints. have the bracell of it to the mill extens have to a great extent ocus under the control of private occurs, and the positions of the Grand Carall Company and the position of the Grand Carall Company occurs, and the position are the position in at present is rather a peopless one. The seculiar because the Grand Canal Company product because the Grand Chail Company would do selected, as a panish distinguishment operation, fit in the start tests to one of me a central stall. It could do believe without counting the waterway. It the Report In the start that the sample of local testing the start that about high testing the start of local testing the start of local testing the start of local testing the parallel young books, when freight is about, are sully comparing backs for traffe. Through that riger appear at limit wight to be a post limit of local testing the start of local testing the start of local testing the start of local testing the local testing te has been sometimes—ups resurt his seen that the process have used the privately owned banks. The most im-pertant use is made of their, categor in the case prin-tically of Mesure Guinness and the allied industry of seeing of steams Gountess and the alicel archastry of mailting. Some people appear to be able to get what they want free: the Grand Onal Computy. That brings me to another point which we consider very undestrable. It is almost more table when a big con-cers lifts the Grand Canal and the Brinow Neymenton. eem this the orann usual and the fixing Naragation is in private hands that it man who has central will not be nearly as generous to people who are not his friends as he will be to those who are. There is a widespread feeling that there is insournized. I can

587 I think you ought to !- It opms up a very diffi-cult question. I am quite willing to give chapter and

Mr Housen.

588 I hope no libel action will anse out of the sitkings of this Sub-Committee!—The feeling is wide-spread that there is favoratione. Now I am also in the difficulty that it is very kard for saybody— 509 H your allegation is put on the record, we shall have to sak the representatives of the Grand Canal Company whether it is so or not, and that may miss Company whether is us so so not, and that may mus-farther difficulties I—d was going to give one metance of what I regard as favourities, and in doing so I are in a very gross difficulty. I am in besidence styrelf. The difficulty that arises is that it may appear to the The difficulty that arises is that if may appear to the public that I can have be also you gravances. It is, between, invitable that I should give you a persent measure, but I cannot tall your you a persent measure, but I cannot tall you you foots about other people's becames as I can of any get. So I have not which you can we see sould be typical fifteen and I would probe to give al.

651 We don't grees you to give it, but, if you led like giving it, we shall hear you !—I only stop at the point when you well accurate it is described. It was a mill at Curlew, and the distance to Carbon, I though room the hardward is 60 window miles. I am changed a sall on my beats of the St. pas ten—toll, not freed, and on my beats of the St. pas ten—toll, not freed, and on my beats of the St. pas ten—toll, not freed, but the my beats of the St. pas ten—toll, not freed, but the my beats of the St. pas ten—toll, not freed, but the my beats of the St. pas ten—toll, not freed, but the my beats of the St. pas ten—toll, not freed, but the my beats of the St. pas ten—toll, not freed, but the my beat of the St. pas ten—toll, not freed, and the my beat of the st. pas ten—toll, not freed, and the my beat of the st. pas ten—toll, not freed, and the my beat of the my beats of the st. pas ten toll, not freed, and the my beat of the

532 How far is Portarlington from here?—It is two thirds of the distance, and the tell is only a fraction under 50 per cent less per tox-mile. Why should that

be! Carrying a longer distance is changer per too.

533. Have you many looks to go throught-Yes. We have got to run over the same system for three-forths

Mr Hormon.

321. Montos.

322. Montos et the Pertarringen stall — I am anyy I have set the figures with no. I think it is it, fell or the figures with no. I think it is it, fell or the figure in the figure is the figure in the figure in the figure in the figure is the figure in the figure in the figure in the figure is the figure in the figure in the figure in the figure in the figure is the figure in t 536. I understand your idea is that more trade might

558. I understand your idea is that more trade might be done on the carals of these was a better mining system 1—Yes. I will give you a very better mining norstane. I have again to mive any own first Naturally, I could not know this about any other firm Naturally, I could not know this about any other firm We were paying the Grand Canal Company to the then fruit a year toll. The Chamman of the Corpray told me that the tolk were practically all profit. The locks have got to be there. They have abundance of water, and the lock-keepers have to be kept. The water, and the lock-keepers nave to to any opening of a lock a kundred times a day or only once a "That is admitted." opcoming of a look a hundred times a day at only con-ing summed did to the exposses. That is submitted. I want to the Canal Company myself same years ago with a proposition. I raid to been, "We are payers as made a year—to was nearly \$700—and I can be also made a year—to was nearly \$700—and I can be considered by the control of the con-trol of the control of the control of the I will gravatate the tolt, and I on octain we will be able to do more." They turned to yelfor down I had to do more. "They turned to yelfor down to be the control of the control of the control of the best of the control of the control of the control of the best of the control of the control of the control of the theory of the control of the control of the control of the second of the control of the co teather That is a face that the cannot occupanty was not dispute—that that proposal was put to them. I said to them, "It's heads you wir, i'll sails pee der's lose Will you take it?" The chairman of the conpany had proviously told me that the tells were all profit, but I could get nothing out of them. I substituprofit, our I could get nothing out of them. A that that leaves us in rather a happless state. that that leaves is in rather a lopedon time. The there is goat intermettery in dissip, with tentile Since the company get beats on the river they legal is put up the tile. Thus, with regard to the treat-tion of the company to the company of the company of the Cornel of the company of the company of the coul. They are not occur have a very good comple four the contract of the could be a superior of the safing. For many years they have had to get all their could be company which is now a trush had of seal for the of seal for the Company, which, as I have safely the a causal indice.

has a canel niding

556 Where did at come from? Do you know! Mr. Field

837. Do you say the coal came from Dublin !-- Yes There was a train load of coal for the Gas Company-There was a train took or compart the coar Carlow up to eight wagons—and when it reached Carlow 10 to eight wagers—and when it reached Curbor it had to be outfield almost a statute mill frees the rail-way station, while the Gas Company had a caralistics. If you ask the Gas Company had a caralistics, if you ask the Gas Company why stay got the east by train instead of by creat they will tell you show had to do it. Brown and Crossecoil's milk you show had to do it. Brown and Crossecoil's milk on the creat the control of the company of the compan My SHACKLETON

Mr. Field-continued. over. We are in the same position. We are on a canalmed siver.

SM Is there any other point you would like to deal with 1-We wish to point out that the Barrow was beegnt by the Grand Canal Company in 1804, and it

has been neglected ever since Mr. Field

539 That is right?—And we submit that it is not in for the Canal Company to advance the argument now that they would have to spend a large assemble of names to put the siver into proper order, because the consent condition of the siver is the result of this negconsist collision of the view is the result of the non-ing the 94 years. At a ver immediately above Carlos there is a most typical instance of mijlor. There is a by-such on a fittle let of the canal. Two coppur-sions were locorond some years may form hallow-per the properties of the properties of the pro-ting of the let be some system that it continued all through. On that part of the system, owing to analysis by the Gunal Company, we are more compelled to shorten our lead very contribently all through the amance, and in the writter time we entitle very most. ammer, and in the wither dine we enfire very much hour foods selling up, and at varies parks of the river they made the central issues at centain pattice. Then, with expert do the pattral management of the Ganal Congain, we submit that the controlling values as the Ganal of Sealment whose their completes in our cited with, the Shook Rocheste. They cannot do-vinant to engage the controlling the controlling the management of a corrying company, and it is unfesti-table for the development of the control that it is unfesti-table for the development of the control that it is unfesti-table for the development of the control that it is unfesti-

he continued. There is one other interesting point I would be continued. There is one other interesting point I would like to mention. If you take a map of the four right of feelund, you will feel that all the inland mills Chairman 560 Is there any other point you would like to refer to 1.—I think I have told you all about the rates 541. Who fixed them !—There is a maximum toll ad freight. The other freights are fixed by the Grand. Canal Company

Caral Company 532. They can fix their own rates provided they dan't showed a certain figure?—Yes. A very high maximum has been fixed by Act of Parliamous!— 562. In there any tribunal to which you can appeal?

Mr Houses 544 You have not the Railway and Canal Commis-

Mr. Field.

545 That would be a very cartly tribural to appeal to In the case of the Dublin Port and Docks Bourd it cost as \$5,000 to appeal to the Railway and Canal

546 Mr. Shackleton, me the rates on the canal the they are cheaper, in others deaser, but they practically our fairly well together. As a whole, they are not

the year emply such stuff from year mills by careful - We have to get in all supplies from Dablin. We send a good deal of stuff ore, north and south - 568 By camel - We have to be dealed of the form of the best of the form of the study of 548 By canal? Yes, 549, Do you find that the rates between Dublin and 500. Bo you find that the raits between Distant and Carlow cashle you to do tunious I—Until compar-tisely recently our great difficulty was to get beats. 590. Then you got your own 1—Tes, because we could not get books at all. The Ganal Company has repaired all their books, and there is a very large fact of the

55t. Are you oward, or is it a fact, that there is an agreement between the Rullway Company and the Canal Company 4—Yer; it is a matter of public i nowledge

Mr. Field-continued.

27 (Continued.

552. Is it your experience that owing to that agree-

ment the tradess are obliged to comply with what-555. If you got a had service by the cared they send you to the rading and our word, and it is a case of being between the deed and the deep send. That is

554. You know Mr Ward of Begushstown—he writes eating that now the truffic on the Borrow is nothing the what it used to be! - That is so It is nothing to

what it need to be | Hat I should be | BEG. I remember, Ha. Shackleton Regnalstown when I was young, and the treasendous natent of traffic that used in he on the Barrow. Mr Ward says

is quite different new?-Yes 1866 In your traffic do you paster to use the outsil to the railway!—We have caust endings; we would not

the failury - we have count country; to wear a country to otherwise.

507. Have you any explanation why the Gas Company seeds by the rullway knateed of by the country when they had a siding on the country. They could not

got boats
\$55 Whot caused the deficiency in boats!—The
tying up of the Canal Company's and the restrictive
regulations, which drove the private owners off the

See Are these many boats driven by meter power on the mrer [—Yee, a large manbet. We have several, \$40 is 3 year opasion that the pility of the drac-tices of the Gund Company has practically stopped the traffic —It has tessied to very much perfect.

561 De you think that by-indees would convey goods better than an organized body like the Grand Chand Company "Net; the by-tractive can be better relied on to provide bods when you would not consider the convey the consideration of the con-ciliation of the control of the control of the with a statetory bedy be-Net; but what I want to come or that in particle oldy have been more read 565. The byttindes' bests bedy be-Net to the control difficulty of golding sufficient both from the Chand

564. Deer's take your own case alone. Take the case of goods that go irons Dublin to Limerack. They go by the Grand Canal Company's boots?—Yes. by the Grand Canal Congarry's boots!—Vec.
555. It would be an advantage to have an organized system like the Grand Canal Company?—Xec.
565. Yes would not advanced that the Grand Canal Congarry should go ent of business!—I don't as carriers, but I do advanced that they should not have a controlling voice on the system.
567. You would like them orecasts carriers?—Yes

Orlenel Greiter.

560 It is before the Bailway and Canal Communication that a complaint would be made in Ireland ?-Yes.

550 There is no difficulty in bringing a case !- It is very expensive and templesome, and we are all rather

Mr. Hausen | Only four sittings have been held varse the Department of Agriculture was established in 1891. There was possibly a mistaken feeling that it

870. In there any business for the Barlway and famil Commission to do when it comes over to Ireland? 571 You appear here in a two-fold capacity-first as the representative of the heat Infrastrial Rederation, not secondly in the unbread of the uses of the canal 3-1 really appear to represent the Redera-tion, but I had to confine my evidence to the portion

isin, but That to common or "".

1970. Year Mr. Stillington hospither represent the Interest and Paternica L-Tes. We finish its very important if my sengrationist in the spinze in the eventure to develop the considerable. The Europe, after being taken over by the Grand Canal people, has had all years of neglect, what do you suggest—decrement interference as fixthe central t-I am added these is nothing for it says but Matter eventure I am added these in a reader of the Canal Canal Paterne management of the Canal Canal Canal

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Colonel Gretten-continued.

Canal were administered on proper lines, would this Contact on the prospectity of the district in which they work!—Yes—it properly run it would have been a paying propertion. That is my own opinion and the opinion of many hexasess people.

370 On the Eurone there are two sets of rates—rates with the contact of t for those who own their own boats 1—Tolks.

579. And rates for those who are the heats belong-

DOF. And rates are those who are the coarse correspond to the company hericals.

See he was a supplementation in the fixing of the colls and rates whoch may be of advantage to a Corporation as against the owner of beats and lessees of the coral I—there are the conditions of the freight

572 You are also, Mr. Shillington, a representative of the Insh Industrial Federates t.-Yes, str. 550. You have board what Mr. Shackbette has said?

500 You have noute-seasons—

Livie — L

and make a deep const.

NEQ. From Newry to Protodown — Yes. The locke dug't rates the water to such an extroit these, and the water would be supplied from the river Enra-Three is such a little full between Partiadown and Lough Neuth. I think it is most important that these two cannis should be kepf up.

Mr. Fidd.

683 Which two canalst—The Engan Navigation Congany and the Newry Canal. I am also in favour of the State couring the canal. I think the condition in which the Newry Canal is kept in a sample of what a provisionment company does. The Engan Naviga-Chairman

584 When was the Lagan Canal built —I cannot say. Some hundreds of years ago, I think 285 Do you think that stude could be encouraged if the ganals were kept in better repetr!—I do, and tags to bring the lighters around where they enter Lough Neigh. Mb Hew do your rates compare with the railways? —Uthink they are lower. I know no one who can get They have power to do what they like alrapet . They certainly can do snything that would be necessary to bill the private boats. 507. Is there any metance where beats owned by the

507. Is force any instance where come were we company would have a preferential position as a currying unit compared with a best owned by yes i—Unit the control they had every preference they possibly december of Ther were allewed to travel at hours when

573 Your complaint is that when the control was established it was the same people who had centrel of the ental !—Yes.

Mr. T. A. SHILLINGTON, Castlendard Lines Company, Ltd., Portadown and Belfast, Second Representative of the Irish Industrial Federation, called in; and Engaged.

Chairman-continued coal or corn or wheat by the canal who gots them by

eart it back to Largen, but I think the railway con-parties have brought their rates down. I think that is

187 One of the witnesses and yesterlay that the transport facilities had been greatly improved by the coming of the Ferd motor care.

Mr. Hanson.

588 The point, Mr. Shillington, is whether the development of canal traffic would be affected by the development of the motor service!—It has not done to be Pertudown. The motor will take smaller lands to be Pertudown.

590 The motor service does not affect the larger and heavier goods to be dealt with 1-20c, these are sent by

Mr Honson 591. In these much complaint in the North of Federal as between canals and railways entering as carriers to certain points - Well, I carnot my.

See That is to say, do the railways as carriers

585 Do the railway rates according prevent the others having a rate at all? There is a point at which ordinary business men will take advantage of railway rates over a slower correage !- The cornel rate is lower for coal from Belfine. for coal from Bellinst.

594 Take Portadown in relation to Bellinst. Is any

Mr. Eisdooy 595 You said that it would be a good thing if water were pumped from Lough Neigh rate the upper level of the Lanza Gualf ... Yes

595. Do you know that there is a pemping station?-No. I was not aware of that.

SW As regards this project of directing water from
Lough Neigh into the Newry Chrish, has an engineer's

2 Li hope have been an engineer's

options been precared !-! have never heard an engi-nees's opinion, but it has been belied about. The people in Pertudown are in favour of it. _588 They don't know whether it is leasable or not!-550 They have never taken an engineer's opinion on the matter?—No. You spoke of the question of rates by sail and water !- Yes.

water — Yes.

501 Do you know that ordinary earriers between
Bellast and Foresbyen on water will only take rough
groots — Yes, building materials and coal.

502 They den't take all classes of goods — No
503 Three is a waterway there between Bellast and
Portsdown — Yes.

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Mr. Lindsoy-continued. 664 If the bests wan't take the goods, is it not the full of the people not to organize services of their own if they are dissatisfied with the railway rates?—There

gre no markedeles in revisioner, see in-claims.

66. Jointly you might, if you git to signifier, provide
a service and get goods both ways.—Tee

66. You have not done that f=No.

507 De you think you ought to just your complaint
against the railway company in a tangible form by

Mr. Phold.

one With regard to the points rassed, as there any objection on the part of the canal owners to individuals to my motor boats from Portudova to Belfast ... I don't

616 I understand, Mr. Nousey, you are a gentler of the Board of Centrel of the Board of Mr. Nousey, you are a gentler of 16 I think you know the Terms of Molecular Officer, and the Terms of the State of the State

can, Sir.

518 Would you first of all tell us consething about the Recent of Control and what their functions are ? Liner Extension are lives organizated than useful I was appointed 10 or 12 years ago after a stiff light to more the count from the condition in which it then was. Feehaps I may take my connection with the cital In 1894 we could get no actisfactors for the cital in tendence in connection with the working of the count. water the fifth him, and howel for the regardines weterway did in this saw socked and flowingle the tones in at. I possible out he peak service it was to be a service in which to the first in the first in the service is wall to be a service in which is a service in the first in the service in the first into the condition of was when they purchased it in 1894. I think No notice, however, was taken by the rell-way emphasy at these mixturelism. They treated them as absolutely non-crisical, and I then again brought the matter under the notice of the Beard of Treate, and again in 1896 Six Francis Marnofin C.B., came across and I accompanied him for four days on the Royal had been selling the water—that water was sold for work as they were entitled to do under the Art timms-ferring the caral from the old Royal Geral Gampany to octing the cairal from the est negativersil Company of the Hidding Railway Congany. They had the power to step in, if the canal got into discense, and have the repairs correct out themselves, a hand having been related from the original sum naid in Government security against that. We could not discove where security against that. We could not discover where that rectus was—whether it was expended or not. The Act of Parliament land it down that this maney should

Mr. Field-continued

609. Are there may private-owned boats run !- Yes. 610 Are you of opinion that the canals are worked in the way they ought to be !-- No.

fall. Therefore you are in favour of State ownership? 612. Because private owners are practically not

615. And so regards the class of goods carried by motors, they don't come gate competition with the canals - No, with the nativary,

614 They cannot deal with very heavy traffic like the cannie?--No.

We T. P. Konway, s.r., Member of the Board of Control of the Royal Conal, called in ; and Krammed,

was constructed these were on it three members of the

least, in the way of cleaning and surking and cleaning up the harbours. There are very low harbours. At the present moment this is as fine a universaly as you the present moment this is as mgs i univary as your can get in the world, and if it were only properly steam-dredged tence annually it would then be in better consisten. It is a cyring seasonal that the development of sile trade of the country should be him-

Mr Keatung 690. Whose fault is that !- The Midland Great Weatern Railway Company's It was handed over in

1946 to the commany 621. By whom !- They purchased it, but I understand plang parallel to the casal, and offilie Cenna property for this purpose. Then they startled a samiler of boats on the casal for tealing, and, having killed the ordinary land-hoods, they withfrew their own hosts A great portion of the hard-hoots were driven out of the tailed. The hold-host was peak toll to the relieve correctly. I think they told is 100 or 20 to 100 or Unifer the Railway and Casal Trails, this has was

692 The back-boat men are the private owners?the by traders. They have been largely driven 635. And the traders have suffered in consequence? 665. And the tractes are anteres is consocious. Tes, because the railway eccepany have now a menopoly. The corall was a spicerial competing means of getting bold of traffs from Dublin and thang both agreeditural produce to Dublin. If you look at the map you will see that there is a pussage through the very contine of Ireland, and at the present line. the very centre of Ireduct, and at the present time, from the train, you rather inverses teach of land along the cenal devoted to agriculture. If the cannit were purporty worked the result would be that all the agri-cultural produces would be taken by at to the city at a very reasonable rate, and coal seved that is now con-sumed in cerving it by mill.

624 It would be taken by the hack-best ment-Yes. 625 And the railway company don't do it?—The railway Company simply want to kall the traffic on the canal. They have tred to do so in sway possible way. It this Sh-Commettee could recommend that the canal he photel in the hands of some independent body or coder made cofrigate the tentant combined to imbione the condition of the canal, on a complaint that nothing was being done.

519 Betained by whom \$1-By the Board of Works.
then discovered that there was a Board of Control
a existence, but that it had been allowed to lail into
beyame for thirty years. When the Board of Control

Mr. NGONEY

10 September 1918.1

Mr. Harnes 625 What order was that 7-1905. The Treesery communicated with the Board of Works, and they again

607. Tell us something of the duties you are expected to the charge [-1], of course, naturally expected that, being appointed to what you would probably call as executive capacity, that we would be in a position to need at reaponable times, and, natured of being obliged to place this matter before a Commission, that would have sufficient powers, as we have conquestion-shly under the Act of Parkinners, to deal with the coxal carrelve.

668. That is, the three men in the Board of Works and Mr. Boss and yourself!—Yes

629. Why not exercise your powers?-We are not

one way no correst your powers—we are me-called in to coverate them.

630, You should expose the matter and appeal to public opinion—I— may say that the engineer of the Midliand Railway Company, Mr. O'Neill, who is a very sible man ambenthodly and unpostpankly, did his best, and, so far as he was pennitted, he tried to carry out any works I wrote to him personally about. When on my works I wrose to him personary about. When I found there were no improvements made, I generally wrote to My. O'Nell about these, and posted out that such and such a thing was in a bad state. He had nadoubledy done his best in the matter.

Mr. Kesting

681. That is as a matter of grace!—I den't know casetly. As a member of the Board of Cantrol, I wrote to firm and pointed out that certain weeks should be carried out as soon as possible, and I noticed he did what I asked. I would not call that as not of grace what I asked. I would not call that an act of prace t Lithki I was setting in an exacutive cope-oft; at the time of the contraction of the contract of the contract serious condition of Mostoven hardway, whose a closurated two of timber is lying, and they cannot get the boots within measurable distance. The remain we then been supported to the contract of the matter, and received in reply only the usual schor-lengement. I were to be a filter of the contract of the legislant, it works to Set Group Streamon, claritic, his attention to the matter. That is not the way a Beard of Control sight to set. I have to take an onth and an debarred from building stock in the Midhad Great Westers Builtvay Company. My position as a needber of the Beard of Control is most refirefree and

Mr. Field. 632 Are not there a great many extraordinary thing a Ireland !- Yes, but nothing more extraordinary

633 Everything Royal in Iroland is extraordinary. Mr Keating

Oh. The past is the first ball of the past of the past

M: Kesting-continued. 65°. Who did that?—The rallway company. They are the owners of Lough Owel so far as the waters are

concurred. So far as subor as concurred, thece is an ample supply. It cruginally supplied the north and ample supply. The engineally supplied the Francis Garden The regression was made by Ser Francis Marnahov. There as one raths of the crisis sinked garden to the control of t

Mr. Honnes 000. It is the terminal section of the catal. I be to see years and are set of the property of 638. It is the terminal section of the canal 1-Yes

On What they are it is provided outsign a management of the provided by the second of the provided by the second of the provided by the second outside the provided by the second outside by the second outside by the second outside by the second outside by the second of the second outside by the second outsid Opload Gretter the closes. That shows why the place is allowed be silted up. It is absolutely necessary that that branch should be free for the distribution of what is carried by the canal. At the present time this section of the cased is not alone a danger but a disgrace to

Mr Keating 540 Before you proceed further, I would hise to mention that Mr. Owen, of the Local Government Board, gave oriforce here yestenday, and he said that the transit problem in Iroland was likely to be selved by the motion car. In view of that statement commy from such a responsible man-

All I think we had better on which the direct committees—I would be the force of the committee of the commit section of the casal, I would pour out that these large concerns at the opposite side or canal prepare. The grown nothing m issued there is no conducted to the grown nothing m issued there. If the canal is to be overlaped, it is absulted; seemfall that dorings a con-mitted of the conduction of the conduction of the properties of the conduction of the conduction of the standard of the conduction of the conduction of the standard or the conduction of the conduction of the they are not to provide untable recommodation and other natiable footilines. The actionize conduction conduction of all the conduction of the conduction of the conduction of the other natiable footilines is the natively company have

Mr. NOONEY.

[Continued.

(Mairress-centianed a galvanised abed, and the backmen can use it if they

s galvanized stood, and this hardeness can use it if they smit, but he company will not be respectively for such that the goods get into it. such that goods get into it. suppossible for the satisfy of goods in their saw stoods? —this yealway goods. What has really ledged all the social is the divergence of the static from the centre of dismitution more the freezedows.

Mr. Kealing

Mr. Keatuse

653. It seems to use that the nate result of yours vidence would above that the interests of short
dence would above that the interests of some
state of the California and the first of the constant tender. That is so, and I think I can
strength of the call you that if you are a trade on the
nath very possible that if you are a trade on the
nath very possible results. For instance, I
deserved that a considerable relate was given on the
makeys also for coast for the purpose of directing the traffic from the canal. traffic from use cansa-ast Do you mean to say that the cool was taken at a lower rate by the railway than by the canal b.—Yes.

Mr. Lindsay 645 That is illegal! I have it here.

Colonel Gretten. 545. Who fixes the canal rates?—The canal rate was first by a Communication that cause across specially for the purpose.

687 The Eashway and Canal Communicates?—No.

Retworn 1905 and the present day on English judgeonce and fixed it.

Chairmen

(64. An these loves than the roles obtained in the fact that the role of the r

was sold to various because at Blanchardstown. We dis-corned also that in Grand Chan heat could not trade on the Royal Chan), and and it, at carme, a great loss. These are only two plans through—see at Killsons, and the could be supported by about 5 etc., and the other at Massinator's, a nille away. The expenditure would be abused 1500.

either at Magnatales's, a mille away. The expanditure worth be about 200 more sky there is no through 100 from what yet more sky there is no through 100 from what yet more limited through 100 from 100 from what yet more limited through 100 from 1 the Royal Canal of these two position were remedied. It say that that subcreasy must develop the country. It is going through one of the fixest parts of the country.

is fitting introduction of through traffic do you suppose foot we have kind of through traffic do you suppose from the Reyal to the Grand Canal, or vice ceras?—A very large amount of bricks are made on the Grand way large amount of bricks are made on the Grand very large amount of larbols are mide on the Grand Child, and they are very extensively cool in this constr. They have at present to yet for the constr. They have at present to yet for Care and brought to the Melland fine and distributed hose. They go as far as Shige. All that deficially could be yet over if the two counts were and distributed bear to over if the two counts were and the startless of the startless of the counts of the startless of the counts of his very large works at Rahan, has to go past little tabled at algebra Tellismore or that and carried done

two rankways. Truffic of that description would be two nailways. Tauffle of that descriptions were, we more convenient on the casts! I have a common the mere would be more than the control of the large with the proposed and of the Repfer Crail properly alloyabley, to which both Mr. Ross and reynal strongly objected. I got a latter from the Lond Literature stating that he considered that the Railway Congrary onghis to be allowed to set it. By no and on which we have the considered that the Railway Congrary could be as the considered that the Railway Congrary could be as the considered that the Railway Congrary. ought to be allowed to suit this associate to the property. Mr. Ross came to me, and we refused allow one feet of the caral property to be disposed of What do we find now? Here is the latter.—

51, St. Stephen's Green, E., Duhlm, 6th September, 1918. Siz,-I am directed to acknowledge receipt of your best-d an ourself to necessation receive of your letter of the 16th August in reference to the lands forming part of the Eoyal Count preperty near Moy-ralley, which the England Count preperty near Moy-nimum to soil. The objection expressed in your letter to the aule of these based on the ground that they might to he and of these beafs on the govand that they might because the excessive for developing, the testifion on the small would be fitted to the company's proposal if the entiation and loved of the lands way such as to realise them included to be used becentive for the improvement of the naveration. A love it is balley freedom, the company of the company of the company of the MALORAL, the Supermetrobes of the Shanama Navi-gation, who was interedy Haganers to the Greand Cam-loring and the company of the company of the company of question, which is final to be all the way to the comreport you may perhaps to disposed to reconsider your objection to the sale of the lands.

(Strated) Guo, E. SHANARAN.

Mr. Ross and nymbl wrote a joint letter confirming our provious letter objecting to the sale of canal property. 652. Did you ask to have a meeting of your Beard?— It is not my province. See George Stevenson in Chair-

Mr. Lindson. 665 Any mamber of the Board could ask that a masting be called 5-Yes, but it seems inveliges that a member like me threld request the Churran to call a mosetime.

Gioirman.

654. Mr. Rose and yourself are two out of fire?— The dea did not strike me In further reference to that communication I may easy Mr. Rose lives as May-valley House. He is within a very short distance of this place. He impected it as live as list Priday, and deservered a road leading from the village right down to this very point, and the land that is proposed to be sold be points out would be most suitable for the

resetten of stores.

(55) In the land not sold 1—11 may be sold, but so far as we are concerned we have given no antikerity for the sold. If that hand was sold by the authority of the Bessel of Coxtrol, probably in 20 years time Mr. 155 M would be volting the Parlaments for a further large sum to buy it again. The deedging of the conal is a very majoratant point. The system my be recently of catching. the weeds in the carni in one that certainly a patent would not be necessary for. A man gets on each side of the canal, has a vope, and he attaches to it three ordinary stylins and plays memer, but netling dis-appears but the top of the weeds. It is a most

Mr. Harnes. 556 It is an answert assumement on the Royal Canal !

Tes. They have a steam dradger ordered by General.
Hutchmeon and ordered again by Sar Frances Marindian.
They have get this, but I have not seen it no our district for a many a long day. AST Where Mr. Zindsov.

687. Where do you mean?—Mullingar district. Is there say other point, Mr. Churman, that you wish me to give evidence on?

558 I would like to ask you one or two questions Your canal tolls are fined up to a maximum by Art of Parliament "—Yes 559. But your conal rates—that is, the cost of carry-ing—are a matter arranged by a Commission that came ing—see a mining around the Communication that carries over herein—SN, the tolls were surround by the Communication of the Communicatio

Mr. Leadury 662 The 4s 6d, to to where 1-Dublin to Mullingar I am taking a 50-mile section of the ganal.

663. There are two points in the Royal Canal that would permit of boats coloring from the Grand Canal I 664 Were they originally made in that shape?.. (66. Has any estimate been formed as to what it would cost to set up that reads No. 666. I serve researcher, Mr. Nooney, that question of through traffic arising as a definite proposition m. Relaxed No. No. I don't which it has I is in most un-

667. About the through itselfic, do you think there is any value in that I decidedly do . I also believe that there is a great future before Irish waterways if properly developed and efficiently writed

£66. Do you suggest to the Sub-Committee that if
prevers were available for establishing a through traffic
it would be of value to the community 1—1 do. I can
speck from presonal knowledge. My firm at one time speak from personal amentasige any arm at one time required a very greed quantity of biracks, semething like 250,000, mode at Banagher, and I track to see if they could possibly he got by the through route. The object of trying it was to endeavour to get a route are one pating for this professional controls and which would discovered made that one coarse order now so got through. If we had been in a possible so got the brisks by assal we would have put that order. 669 If it do shrough traffic wore seinblished would it be to the anticeal mixturest—Tex, because wrater traffic of any kind must naturally be for the public bounds.

traffic of any sind hims numbers to be use passes benefit. 600 That is a very general observation !—I have not gone into the thing. gons into the thing.

'61 Yea object to the method of calling the Board
of Cented 1-4, do.

'62 Can you suggest any botter method 2-Not at
the memorit. It would require to be considered, but
I think if the Commission would kindly see the Act
under which the Board of Content were brought into

Mr. Hennon

675 May I ask if the Midland Great Western Railnéand no én. That is perfectly fant. B is only feir that they should have a full opportunity of routying to any anti-ment mode reparabing these connections with the Boyal of the control of the control of the control of the theory of the control of the control of the con-cine. The control of the control of the control of the characteristic of the control of the control of the con-dition. 675. Upon whose shoulders does the responsibility rest!-Whatever sold the canal to a competing realway

rest - winever tells too cannot be a computing raining company on properties.

676. The Halland Resilvay Company is not enturely responsible 2.

2 course, but then they look up a certain obligation. sanis, bit then any one up a cerea-gasizateous to keep the carst in the same condition as it was when they prochased it. They have not done so, and it is on their choulders that portion of

the temperasitity reads:

607. Efforts were made as soon as you became a mon-ber of the Board of Coatsol to got the Midfand On-pany to observe its ethication to got. I have teld you already that as far as Mr O'Xell, the company's cagnizer, is concerned the has done all the work he

678 He has not falfilled the entire obligations. He has not carried out the redees of the Board of Control. Apart from the obligation on the engineer to make son on which compliants were out to me dealing with the condution of the casts, II reversably communicated with the Ecand of Control, with, in reply, such true claims saving that the matter would recover attention. 679, Did you were toggest to Sur George Stevesson, that there ought to be require meeting of the Read of Control held: —I did not 650. Whit Advance to the Broadstope branch of the 650. Whit Advance to the Broadstope branch of the

660 With reference to the Breadstop branch of the canal to which you referred, can you look book on the tense when it served a purpose l—Yes.
661. Dot if youthy its canalisms on those days —Yes, just an anoth as it does to-day, just an anoth as it does to-day.
662. I publisher from your condense that the Mailland Campaign with malice proposes closed it up.b—They.
663. The District Propose of the Campaign with malice proposes closed in up.b—They.
664. The Ext. —No. 19, pages of chainings it as there you. 683 How !- For want of cleaning it as they are

684 Did anyone take sufficient interest in the cand to see that they did it!—It is quite existent that I cannot possibly look at the canal from one and to the CHERGO PUREARY
other.

685 This is vary important ordered. I would his
to fix the respectability on scenebody!—Until I took
this matter of the catal up in 1986, no one body a
this matter of the catal up in 1986, no one body a
through of interest in the canal. It was allowed to sormy of interest in the carel. It was allowed remain there for the railway company to deal with

clean it up.

600 Is it not true that the tendency of the trader from Hallingar was to use the yallway !- That is wrong I can speak for my own firm. We tried to carry all on I can spook for my own firm. We thind to carry all our being refill row the canal, and we would do a to day if the canal was weeking, because it is more on-remant. Your look journation, does not go mined up. Your look goes down to your street, and there is no difficult in getting the strift in 1997. Are you drung that 1—No, because we could not the control of the control of the control of the first that we would go could we utilist the canal for that we would go could we utilist the canal up to-day a large

Mr. Lindsey 688 You are alongsodo the oxnal at Mudlinger !-

620, Give us the history of the atcommodation, especially of Spancer Doalt - You would want to see it. It is a currently. There is no accommodation such it. It is a ceriosity. They is no accumendation and at the milley company is heard to provide by Act of Perkinsten. They will still yet "chops in a storegood provide the tenders, and the still yet "chops in a storegood provide the tenders, (60). That is one of the most amoning though of some some for a long time. It is a Let that all Spossess once for a long time. It is a Let that all Sposses of the contractions of people who cannot forthis the decourance of the contractions of people who cannot forthis and a showheaves with an one in charge of it, and will not be responsible for the goods placed in that discharges of it, and companies of the yet contagon, the Mr. NOONEY

Mr. Hannes-contrased by a by trader on the renal. The railway company has provided no accommodation in lies of the accum-mediation they have taken at the Broadstone.

section they have taken at the Breedstron. QC. With regard to property, I guillie that you engoest the sale of the land near Mayurilley accoun-ted to the sale of the land near Mayurilley accoun-ted to the sale of the land to the land to the sale as that this hand to gaze, judging from the letter; I have nool. Why do they want to add it, what accessity a there for disposing of it? I will never content to the sale of one force of the county and property of the sale of one force of the county and property. the callway company have no power to do it

Chairman.

sor. The land in question does not cover the canal? 603. A dram separates that land from the consist-Yes. It is adjoining land belonging to the canal com-pany. Another thing which is grossly receptler in the greation of allowing gates along the temporar and perspitting granting.

684 Is there at present any deare manifested by maders between Mealingar and the Shamon in favour of the rengenisation of the canalt—Yes, every day I am species to about it Bellymakon is 13 maits from a large fart, and quarter sessions courts are held in it. a large tars, and quarter sensions courts are held in it.
The canal comes right into the heart of the teem, but
if the people want a load of flour they have to go 15

cor. When was thus Brendstone brough closed or will must be up the reported I will seare you. I should say should thirty years ago. It was, I think, altered as the time of the passing of the Spenten Dock Act. 607. You say in your statement that the traffic in 607 Tou say in your statement that the traffic in 1905 was a decrease on 1888 Do you support that thus Broofstone branch was closed in 1888 —I should say

600 The traffic is infinitesimal !- It has been goods

700 The demand too none-accessed daying the way.—Yes, rowned daying the way.—Yes, 701 II is hadar's been for the way, perhaps that binber would merer have been offered to the canal. I there was show yes, Mr. Nooney, that there was also yes, Mr. Nooney, that there was

702 About that question of bricks from Banagher mit year complaint that there is no communication between the Grand and Berral Canal, if you look at the map year will see that the best way to take british would be up the Shannon by Tarnrobears !—It is not over to cover traffic or the Shannon. You will see

705 The Groud Canal hogis still yen to Carrick-or Shannon'-Yes; I don't know earthing about the

704 Did you try to get the bricks by Turnsonbarry and not Dubbus? I didn't know this point would be The mass bound of the companies of the when the wild and Railway Company bounds the Recal Canal II was not an absolute side, and that a certain amount of control was left in Tes.

Mr. Lindary-continued 706. The Board of Control was established by Act of Parliament 1—Yes. 707. It was established in connection with the new Reval Canali—Yes, I counts give the date when

706. You are criticising the Royal Canal for selling water Am they not saling their own water!—They are always crying out about the loss on the canal and teret lake into occount its by-provincis.

700. When the water is sold in it not credited to the small "No, to the railway company.

710. These sales would similarly the loss no doub!"

The files would similarly the loss no doub!

Mr. Field

711. Will you tell us who built that canal first !- The unfecturate sharebolders.

712. And what they get out of it?—Some of

them ran out of the country and have mover been heard 713 They got emagnation?-Yes

Mr. Houses

714 They are mostly britising carals in snother part of the universe?—It was built as far as Mallinger,

Mr. Field 715. You are supposed to be a member of the Control Based !— You

Bazel!—Yes
726-That Board has practically no function!—
Except ownerscatal functions
722. May J. sik has year Board of Control over met? Tos, twice in 10 years.
TIR Is your contention that the control exercised by

the relivacy company over the cared has practically resulted in doing melang for the cared except destroy-ing the tenfile—That is my view.

The That is a very server through to make—Xee The rathway company has not long to make—Xee The failway company has see to be the case in proper order as they were bound to do. 720. Do you held that one of the reasons why the traffic has decreased is in convergence of the railway taking away the beats 1—I hold that the railway com-pany when they had boots tredding on the cental samply

There is no dredger practically on the place at all?—There is no dredger, but I don't know where

15 is 272. Is it worked!—I have not seen it worked in Mallings for a long time 728. Would you be in favour of State ownership!—

Yes. Do you hold that if the canal was in a proper condition to carry an traffic, that you would have post condition to carry an traffic, that you would have post

725. Es it your view that that should be done in order 785. Is it year view that that should be done in order to comments could on the railways?—Yes.

785. Are you sware that the railway company under two attempts to shark up the Exceditors seedlen!—Yes.

727. And that I prevented it.—Yes.

728. And that I camed surphing but gratitude fruct. the richest company !- Yes.

729 I hold that it should be continued as the natural 730 Are there unficient beals on the could for iraffe 5-No, quite monficient. 731 What form of haulage have you on the canal 5-

Rose hardinge only. That question areas some fore years ago and the rulewy company raised an objection to mechanical harding, what if mechanical hashings, what is mechanical hashings was need on these beats passing through the penty portions of the country that there would be a dauget of the back-wash destroying the embanishments.

27th Mars an earthur to see about rules are the country that there is now a perfect of the second perfect of the country that there is now a perfect of the second perfect of the country to see a bent rules are the country to see a perfect of the country to see a perfect of the country to see a perfect of the country to see their rules are the country to see that the country to see the country to se The true yes soything to say about pillering on the small—it is not more than on the railways

10 September 1918.7

Colonel Greffon-core 734. You know what the toll charge is?—is, 9d. up to is 11d. and 9s, 3d. The 9s 3d is for quadress, and the 1s, 10d is fer mineral traffic. 735. An admittenal charge is made by bye-traders?—

Yes. Yes. Can you give use a schodule of the canal charges? Mr. Hospie

737 We will get it from the Eathway Company to There is one old bost-owner and he would give en-dence. His name is James Leech.

Mr. NOOSEV

Cherman 738 We are very much obliged to you. There is one quantien I would like to ask. Mr. Field spoke of branging up past by canal !—Yes. 739 It is bulky and light !-- Yes The boats would

Continued

for 10 h keys and ngm: — ass the many world take about 30 tons of past, and they would not be the highly built up to pass under any bridge. There me only one hindge that might be a bot low, but at would not interfere with the bads. 740. There are a lot of test hope along that canal !--

Mr. M. F. Kroov, General Manager, Midland Great Western Railway Company of Ireland, called us; and

741 You know, Mr Keegh, that our duties are to try and find out how the canals of this country can be tity and find out how the critical set this committy can be used for accessing these, and I melentantly von how a valuescent to make to un!—Too, but I have only part van section of the contract of the contract of the values to have the whole of his voltame. I only heapt the latter end of ut. I don't have whether you with now the contraction of the contract of the contraction of the constructions with the posts. I had generally skelled out again observations as regard the cultiva-lentities at the Western posts, and I have dealt with the contraction of the contraction of the contraction of the method of the contraction of the contraction of the contraction of the section of the contraction of the contraction

Mr. Harren 742 I think we could to have a general statement—
it is very important!—I am tony I had not very much
time in which to prepare a statement. This diagram Scales to Gulley (128 miles, with a wissoness problem of Gulley (128 miles, with a wissoness problem) and the Gullet (128 miles) and the Gullet (128 miles)

and 4thone and Roseconton Dilays Estably, the strandard leng angle text conty.

743. Would thus be any difficulty in making a dwitch lim free Bellinable "Now whatever The other law of the Bellinable "Now we have bodden, Osleway, Ship, Westport, and Bellinable "Now the best of the Bellinable "Now the Strandardist per have less suggested at the following ploose within the district several by the Milliant Bodway, manty— district several by the Milliant Bodway, manty— The appropriate of the Strandard Bellinable Strandard The Strandard Bellinable Strandard Bellinable Strandard Bellinable Strandard The Strandard Bellinable Strandard Bell and Bellast respectively are—in each case I have given the abortest releage —

To Doblin. To Bellast Berna (extension sailway to be provided) Killiary Bay (ditte)

Mr. Landay 764 You have not got the distance from Blackool to Belfast if the line to Collourer was made?—I have

200. Heaves I It is about \$10 miles. Witness J At Dublin the M.G.W. Railway is connected discelly with all the other trunk lines entering the city, and can handle traffic landed at any poor of the quitys with white there is realway connoctine. It administs the Company own the Spences Dock. The Spences Dock, completed by the Occapion in 1875 at a second of 257 GOO, covers an area of about 35 garden, the quey length being 3,500 foot. Access from the Save Lifey at obtained through a lack of the following the control of the control of the control of the Company of the Com forms the exetern terminus of the Royal Canal, which caters the dock at the end faithest frum the Royal between the Upper and Lorer LAME, which was con-accommodate small vessels cornying up to 650 or 500 form. The tentimery in the Irish construg tende in to use larger vessels, which can be worked more combetween the two docks would not be a work of magni-tude, but would survive the afteration or replacement of the twin hitiges created a few years ago by the office of the twin hitiges are the survive to man, the twin hitiges created a few years ago by the flattening that the survive to the deck. The herespikate ever the enformen to carry, one min-dermaldiged extragging out these ingressmine uncer-densatility of extragging out the supergreening to en-danteen in Bubbin provider with stag early softensa-dation in Bubbin provider with stage of the super-dation in Bubbin provider with stage of the super-dation in Bubbin provider with stage of the super-dation in Bubbin provider with super-dation in Subsect and teamy technique memoria-tion of the super-dation of the super-dation of the super-dation of the super-dation of the super-vised to large to outer Spatroer Dock, being multi-to a vert too large to outer Spatroer Dock, being multi-to-tion of the super-vised to the super-vised to the super-dation of the super-satisfies of the super-

Mr. Kentine 746 Why not come into Dublia Harbour?—They could come into the harbour, but the berthage provided

Mr. Linday 746 Before the Spencer Dock was made, in 1875, 1

The Bettow the Spencer users, was maken, in bloomappose the Royal Canal communicated with the Leffey!

— Lee, it cause out an a cound. The gress revenue of the deads in 1907 was 50/133, and the total expensiture \$2,272. The total toronge deadt with was made \$20,000 term, including about 60,000 term of the Royal programmer.

Mr. Leading continued.

and the substrate leaffer for our off. I are specially all process to the control of the control

517. Is that arross bog land?—It is poor land. At the Elecksod Bay end it is through beggy land

Mr. Leading. 748 Are you assuming Beliavillet as the terminus?...

700. In the Malley penursula !—Yes II there is one subject on which Iradireon are altogether agreed, I delike it as that those capit to be a Transathate part on the West ceast of Ireland Where it is to be placed as a nature upon which we are not agreed, it is that it coght to be nonembere between Galway and Stops we are all agreed on Course of the Committee of Course of Course of Course of the Committee of Course of the Course of the Course of Course of the Course of the Course of Course of the Course of Course of the Course of

780 R does not matter to your Company which of the two-Blacksed Bay or Galway-is adjected 1-No. Galway has the one elevantage that you have a trunk line already made

Mr Field

the Control was a to be read to the control was a to be read to the control was a to be read to the control was an interest of the control was a to be read to be related to be read to be read to the control was a to be read to be r

roose to Duhlm than the essal in both materices, the very triffing. The Royal Consil connects at its western termines with the Shannon Navigation, but there is preciseally no eachange of triffic between the two-waterways, nor does these appear to be any prospecwaterways, nor does there appear to be any prispect of considerable development in this connectors, apare-from the opening up of the Augus mineral during This only form of any amportance reached by the Sharmon Navapston neeth-west of Tamoubany of Carrickon-Sharmon, which its corted by radium, which connects with the mavgable portion of the Shannon, and thence the Royal Canal would form by inc the shortest water route to Dublan. It would, have ance from the ret to the water, but, on the other hand the break of gauge on the railway toule (the Cavan and Lestrin redway running to Arigan being a narrow gauge [mr) involves miditional arpense also. The pee sightly of developing to any material extent the trade on the Boyal Chyal on commercial flow s, at least deplific. The district service is purely agricultural

happens to have his store on the canal, and who would more will materally use the coxal; but, in 90 cases more, will naturally see the count's bras, in \$\tilde{\pha}\$ cases of \$100, it storing profes to be the nature, and thantime I widew it seems to me this, unless the continue I widew it seems to me this, unless the continue I may be not to be a party agreement country, as it is at greener, at all seems in this Multimote and the Westgreener, at all seems in this Multimote and the Westparticle of convenient to the Royal Count of the State o be any considerable volume of traffic such as would justify the expenditure

752 You said the canal originally cost £1,421,900 on 755. I gather is had not been successful?—It was in land took it over, having pessed through the hands, I think of three sets of promotors. The railway con-

one to bay it.

754. The water that the vallway sells from the canal, to whom in that credited 1—It is credited to the rail-way company through the cound accounts. In other way company through the costal accounts. In other words, it goes to redirect the loss on the camil 755. The latel that it used by the radway, do the camil accounts get credit for all—No. 755. You said that the dimensions of the locks only 70b. You has that the unormation of two soots only allowed small reasely to po through T. Yes 757. In three any reason why the locks should not be enlarged P. Note. except financial reasons. 735. How much miney have you got to the credit of the fault-should \$7,000.

259 You mentioned about Rosses' Point and the idea 289 You mentioned about Resear? Point and the idea of patting that place for steamers I—Yes. 700 Has there been any agriation in regard to it!— I don't think the scheme has gave very for. It has been suggested that the difficulty of getting steamers up to the present deep-varies quays would be obtained by a very sexual expectiture on what necessarishing the Resear. Point and by the construction of a short at Bosses Point and by the construction of a ebert

751. Has there been any domand from Sligo for this This there been any oscillate on cond cond the con-—I would not put it qualt so high as spring there has been a decinate for it. It has been spoken of in Sings TOS. In Sign I heard complaints of the falling of of the sea going triffs because the pure is not properly decigned. A man sand to no that if Booses Fourt were traffic as not so much a question of direfigure, as at whattign, with deep-ration robustling the milesty with the smaller gauget—the entition rankway from which the smaller gauget—the entition rankway from the six a very understands infinite in narrow gauge That is a very understands infinite in narrow gauge for the cannot be supported by the support of the in the cannot be supported by the six of the six of the "allow VI".

"allow !
W3. Too allowed them to go to rack and ruin!"—De-yon recan the Midland baste!
700. Too! "You can see these at the spor,
707. At the back of Mounity. How many of these basts did you late go!"—Alond 35 years ago the directors

of the railway, not for the purpose of requiring the by-

pension was a spent a considerable sum in providing modern burges, smitable, so far as they could be used suitable, and they acted as carriers on the canal for on by the company for the purpose of injuring by-truders and driving them off the cond. No

768 I think it would sorve the sudway company and We I think it would sorve the statesty company and the contail if they could come to some exprement so in to help the agricultural profitee of the centry?—The malesty company would be glad to so anything that is participals with a view to belying agreeting or my other heatness, because we do feel that we have a con-

769 I quate agree I found your directors reason able men, and I am not here to attack these I are a strong advocate of railway nateogalestors. New, Mr. taffway companies, we give a low rate on certain out-

Mr. Lindson. 770 On 10 ton lots !-- Op 200-ton loss

771 That proriocally amounts to a rebate for the inge conneguos. I know how that works !-- That as the orphanation of Mr Noonsy's term " rebails." It is not

a relate.

772 How much of the \$7,000 referred to in your evidence have you indeed out on the canad \$1. We have not dence have you indeed out of the Read of Council. been called on to expend it by the Board of Control So far so I know, we have not been asked 77%. And you know yth—Yes, as we are bound to keep at mrill the Board of Control require at to be spent at mint the Bossel of Conficil requires at to be spent.
778. Do you know why the diverge as kept a seed a seed a seed a seed as the conficil representation of the conficil representation

and before, but witness and 770 As allottzents !—Yea Mr. Lindsay

toes used for the predection of food during the war and ledge, but without obstructing the pastle. 777. These rates that you spoke of—the low rates—were quite public?—Yes, they were in the rate books 178. I think the witness was under the impression. We had not.

779 Mr Nroney made the point that you would not allow motor burges on the capal?—There has not been

and moost langer on the constitution for constitution and measures are applicables within a recent times.

700 There is not much of a future for conshibition; in agricultural country—their in your view!—Xee.

731. At Count there is one station with two conpames 1-Yes

nmes—ges 782 Why is Westpert Quay closed up—no traffic!— ea no traffic. The quay line as not closed. 783. I understand that when the Rayal December. 100.1 Underween unit want too Hofel consumers are a common around there, someone representing the reliver company professed the company's willingness to give up the catest provided the company and the someony in cover for fit—I thrust the altitude of the company at the time was that if the capital were presented and if the time was that if the capital were presented and if

there were some componention and protection against then they would acquiesce.

786 What you don't want set up was a conven solution by public money or by rates t.—Yes.

785 About

[Cohtenwed. Mr. KEOGH.

Colonel Gratten 785. About the port of Dublin, do the barges come from Spencer Book into the Lufley?—Yes

187 Alongside the steament - Yes 188 There is no obstacle whatever - None whatever Parthermore, if they take their cargoes in Spenior Book they are free from tolls NOS As regards the enlargement of the dock gates and oke, what are the obstacles—They are entirely look.

featers!

792 The rankway company as not perpared to make the expenditure !—No. The expenditure of a further

ordicient — They are not. The mining feediness upply to only a limited attent to the free bettin-title by a manifest of the free bettin-title by a manifest of the rathery feediness apply to the white North Wall from our during the great pack in the Dout of the wall, but the available quity space for bettings along as manifesters. The manifested efficiently as the difficulty of finding quay space for the

Sings 722. What is the class of treffic you deal in F—In the dock, the incoming traffic is largely coal and given. 723. Are you openhang of the traffic from Speacer

734 The general traffic !-- Food staffs, coal, a certain arcout of manufactured timber and sandry traffic.

796 Is it considerable from the Port of Dablin's— 700. Guito considerable. 700. Have you figures as to tomasget—I am alrust

Mr Hosson.] We can get them in the Import Beterms of the Department of Agriculture. Mr. Lindsey 707 How many goods trains in the day do you run

Colonel Gretten 738 What do you send down to the port !- We bring to the past a large quantity of perabable traffic, eggs and feedstuffs and live stock of all sorts, potatoes, and

at the present time a considerable turber truffe.

792. It has been represented to the Committee that ride in his seen representation to the Committee that a few manufactor port in desirable checky from the point of sizes of passengers, mails and passels. Do you think hereitr traffic could be handled at such a part.—Yes, we believe that the predictive power of Ireland maghe In gower times there was a certain amount of lights moves that bound its way across the Attantia.

EEO What class—Liseon, Gourness's perfer to a consistential certor, cand this, 1 and we six bed that if the foldition were increased as they would be by the arithmeter of such a poet these would be every model of the contract of the co 801 Irish profines is very largely agricultural -

302 That is one of the obstacles to a big toude?for I had to one of the consenses to a tog toute.

If the scheme were accompanied, as was always inlonded, by a ferry across the Channel, these is no

SGS. You conjectulate developments in that respect? 804, What about meaning traffic !- Well, there is a

504. What about meaning teathed—Well, there is a orisin amount of American produces that does once to includ. Beene, for metamos, as a considerable teaths, and there as a usual why the while of it should not be templify to a client should be while of it should not be templify to a client should be about the con-cost-Channell (see particulate in commotion with the cross-Channell play would be the difference in gauge breven the British and Irah sailways. Hawyou cen-sated how that could be concentrat—No, but hap-

Offining the processors would know nessing on the sug-202 You have gene into the matter from the sug-sering and mechanical yout of your 1—16 has been considered, and these is nothing impracticable about it. 97 It is a question of timned 1—You, chirify.

808 Figure the engineer's point of view it is not in-

300 De you think that if the whole gauge went altered that the cost would be problishing—It would be your considerable, but I don't know whether it would be problishing by any reason. The convension of the Irish gauge would be a companiously such ill men 810 The cost of altering the present gauge to the progo necessary to make it available for the English much simpler problem.

... It would be cheaper than the conversion.

\$12 Would it be equally safe !-- Yes

Bid. What about the difficulties as to the crossings.

The Grant Western found no difficulty, and they had

814. Arraing out of Mr. Noncy's orifonce, he meeted that there was a conflicting of interest between the Royal Canal and the Midfand Earlway, and one of

to obstruct this matter—which they don't in the least-

way as it exists.

818. Mr. Noncy asserted that the effective opposition to the Grand Canal and the Royal Canal really arose from the Midland i—The connection exists to-day. 316. Mr. Nooney says the Midland is obstructing Revealed the state of the second of the seco

this terms 817. What is the difficulty in arranging this connection? None whatever; is existe.

113 Then My Nooney's observations are not founded

on fart !- I thusk he is under a misapprehension. Mr Housen

\$19. Can you tell us, Mr. Koogh, whether the accen-modatem, so far as malesays are concerned at the western posts at present, is as idequate now as the

830 And the Midhad Company would be perpered in the event of any port development to meet harbour greeponding milesy improvement

283. The Malliant Company as quite sinflerent as to the point on the western solvend as which and the point on the western solvend as which and the point of the western solvend as which of the point of the western solvend as the proper attention to expense a strong opasine on that the point of the point

10 September 1918.3

Мг. Клоси.

[Continued.

Mr. Harrist-commond

Board of Control has called upon the Company to execute repairs. I am aware, from reading the per-ceedings, that some 25 years ago there were secure occasions on which the Board of Control called on the

809 The important fact is that no application has been made to you for any years to more adequately affantain the canal !—That is so 355. Ind you hear the description given of the out-tion of the woods !—Yea. 359. Do you agree with that description !—No; I

330 De you agree wan this occumpance — agree that we have not get any mechanical means.

887 I have some recollection of seeing that dens myself, but it is now than any years ago—The method is very amount in Irriand, but it is affective.

as very anotest in Irriand, but it is effective

830 With regard to the Penalty Fund, that is available when any demand is made on it. In these if
the necessity suggest to effect repairs in say part of the

cutal "-Certainy, all the traffic on the certal, all the whole problem, in your judgment, as due to the attend operation, of economic laws!--Tes SO III may say so, I computable you on the case you have made !--Fank you

Mr. Lindaya

\$31. With regard to the connection between the two chinds, one you say if it is a fact that the Grand Ganal beats variety come down to the Liftey !—Very busely 532. There is no need for the connection so far as builtin a concerned !—No

\$33 I simply dealt with the general principle Mr. Jonney expressed before the Committee?—I mis-

Colonel Gretter. 834 Chald you tell the Committee if the constru

Mr A A Cruxus, Representing the Irish Canal Bost Owners' Association, called in; and Examined

842_I unforstand you represent the limb Creal out Owners' Association I—Yes, str 863. I auppose you read our terms of Reference !... I

ded.

544 We want to find out the facilities efficial by the posts and hardcore of Ireland, and it is in connection with the canaby see want see [-1] will be solved me connection with the Grand Chanl system to the control of the co May we sak for permission to hand in that Report!

845 Yes!—Another point suggested was that, when
you are making your four of impection of the Giand.

Mr F G Tracerson, Carlon, Representing the Irish Canal Boat Owners' Association, called in, and StR. You desire to give us some information -- Mr

storphy and myself are more interesced in the cones and of the Grand Caral system of the Bayrow Navaga-tion. The main trouble about the canal is that it has a waternay that is discled to the interests of an excessor and which learns the collect public or bear concern and which learns the collect public or bear concern and which learns the collect public or bear where the collect public of the collect of water is connected to the collect of water is connected to the collect of the collect

849 Where is that I-Prom Athy to Dublin they frequently cannot carry full londs in the summer time

Colonel Gretton-continued subtantial to carry heavy fast traffer Yes, the greater part of it is strengthened to carry any bridge. There is a small metion at the whetern end of the line

835 There was a statement made to-day that the conal hange-owners branging goods to Dublin into could harge-owners brunging goods to Deliku mis Sparce Body flad no avachances to put them mis Sparce Body flad no avachances to put them mis to be a sparce of the sparce of the sparce of the low Rall-sparce of the sparce of the sparce of the low Rall-sparce of the sparce of the sparce of the an incorrect of tolks do not concern that on an incorrect of the sparce of the sparce of designate building of the sparce of the sparce of designate building of the sparce of the sparce provide acceptance or a staff in connection with this provide acceptance or a staff in connection with this

Mr. Fred 836 You slow't accept responsibility?—No, we say "there is the canal, if you pay us is 10d you can use it," and as we especive it, our obligation is to 837. You employ the lock keepers !- Yes

836 In olden days was not there seemmodation! There were stores which I believe were built for caral pulposes at Broadstone which were out off when the new bridge to the passenger station was constructed Whether they were most for called purposes at that time I am not in a position to say, but they were originally constructed for called purposes \$30. Would it be feasible to open up that Broadstone 200 would it to because to open up one pro-place again [-It would not be featible to early the consi to its original terminus. I don't think, as a matter of fact, that the Brandstone would be as con-

Broadstone would be 840 That is quite true. I agree with you. your conviction carry you to the point that you would shall up that spur which is a most impectant matter for the northern part of the city i. That spur was not closed by the Radway Company at all. It was closed direct

841. I think your evidence is very fair

Chairses-continued Canal, if you would give as notice of the date at which Canal, if you would give us notice of the case in which you would be at the different points, I will arrange for our members to meet you and give evidence as to the defects of the Grand Canal system.

Bed direction of the bosonic countil by-mostle.

Bed I must arriand that their votudl not be possible.

Failure, that, we would ask that you wends brag with

Failure that, we would ask that you wends brag with

boost published.

I must be seen the growth of the countil that he

boost published to be seen the growth of the

the canal smale by Mr. Flatcher at the request, I think

the canal smale by Mr. Flatcher at the request, I think

the canal smale by Mr. Flatcher at the request, I think

the canal smale by Mr. Flatcher at the request, I think

provide the form Countil the loss published by super
possible for your Chamsilise to go the Report!

847. Yes, we will get it?-Thank you Murphy will give swidence The Canal Company have certain springs from which

Mr. TROMPSON.

Bassow. The Berrew was taken over by the Canal Campany in 1896, I think, and from that date it has been regarded, so far as we can page, by the Canal Gargany, only as a feeder for the Canal. 300 You mean the Barrow "-Yee The Barrow, in 850 You mean the Barrow !- Yes. The Barrow, in our openion, has been regarded by the Company as a leader for the canal, and the rands is that they have got devoted the attention to the Barrow which it deserved. If has always been the entention of say of the coal people is winter. It was given on the subject, that the Europe cannot be under to you will, if con't age to all the Europe cannot be under to you will be appeared by the control of the control of the control page with Theorem of the control of the control of the the have to be overcome, and they are not many. That welveys a specially some the Bioschus service has come into Welderm To the to the Section between the control of 3 terms such to now that could be control of the con-33 can see the most that could be extract an at an extent times in a best than shedled entry 40 tons, oning to the first that there are a number of photos where the most best controlled to the state of the state o

They have a mascrable little cause and a poor sort of setty, and very little accommodation in Waterford, 86.1 Is there a warehouse there?—They have a very poor lettle thing, chous half the size of this norm Mr. Wooses

Mit. Resease

Mit. Resease

Mit. Resease

In the OM Market Horses, seaward of the Berige

Free or Association's point of tray, we have no ac
entraction careers when the brit of Westerfeed left is

Pero, whenever, if the Canal Generary had accentracely

Energy the Canal Company had seen to the con
tent of the Canal Company had accentracely

in the Canal Company had accentrately

in the Canal Company ha

Mr Lindery 86). Is the Canal Compan, the authority there !-- I suppose they are not, properly. An additional lock would be required at St. Mullins. If there was money

Mr Kenture

884. Money spont by whom-who would spend the

money-the Government or the County Conneil !-

255 You wish to give us some evidence !- Yes, all, I would like to give same particulars regarding the con-ducts of the river at St. Mullius and on to Grangue

namenagh. At 81 Mullins, houte cannot proceed from fresh to tidal water without tole, and must be arranged to cress an hour before or after high-water in good to the lock, and hinders teaffic very much

1 Continued

Mr. Andresp—continued.

That would depend on who was to get control of them If the County Council are to get control they certified, should spend no movey on them. That, herever, is a question that I did not come hepe greatened to discuss to I want to show how the system could be majorated Whan you get to St. Mullins, there are four or five teles between that and Gotsjornmanningh, and the many pinets the same is very narrow. There are no issu-ing shorts that could be used by anybody on the canal. There are some stores that are purvise property, but bond owners cannot use them. Between Bagnalo-town and Cuslow there are these but places in the river which require importement. There are islands which impede navigation. The words have not been which impede navigation. The weeks have not been cut as fernedly, not hause-haulings is practically the only thing that can be used on the flavrow. The Canal Compeny can moter leages, but they have to ran light.

Mr Kentery 856. Is if you origin that if the Barrow were diesgei properly that the trade of the country would be improved I—Cusdenbiedly. It wants more than diesdying, but diesdying is the principal thing that is wanted on the white system.

\$55 Is there much designing going on ?--I don't think there is may on the extel between Dublin and St Mr Odhun.

867 There is a little going on, but it is very slow.

858 Mr. Thompson, what is the average weight of your ciripost = 50 tous on the Barrow. They can, sowever, only carry 30 to 32 tous What does the hearn monsure?-11 foat

Mr. Hannes. 350 What is the waith of the looks 1-14 feet. 3 think, is the smallest 861 What dissift of water do the boats taket-1

801. What distil or water no have some section thank 5 feet in the canal. At 5 feet 9 we can carry 40 fems. Even Waterbord you have got 32 miles of their water that is absolutely managed at any distil up to 5 feet. It is only a question of another 35 miles to Ostfow to spen age the whole waterway to the tradition.

1808. Have you got any auggestions as to the boot way of opening it up 1-4f you want to do the work of a man the recks and remove some of the place, and blast the recks and remove some of the minuth If you want to do a big 1st, you would have to actual some of the cavalls

M. M. J. Murreur, Barrow, Starch Works, Giagnonamanagh, representing the linch Canal Boat Owners' Association, called in; and Examined. Choirsson-continued anot tincel without the help of the tide

Above

Mr. Mympacy

10 Sculetuber 1918.1

by the Gregor Leek. That could be easily considered from some one controlled high the best highest some control of the second of the best highest would be the average on the rever to Carlow coays; it does not be controlled as the controlled highest the controlled highest controlled highest soles and the controlled highest soles of the controlled highest soles of the controlled highest soles and the controlled highest soles of the controlled highest soles and the controlled highest soles and the controlled highest the controlled highest soles are soles and the controlled highest soles and the controlled highest soles and the controlled highest soles are soles and the controlled highest soles are soles and the controlled highest soles and the controlled highest soles are soles and the controlled highest soles and the controlled highest soles are soles and the controlled highest soles are soles and the controlled highest soles and the controlled highest soles are soles and the controlled highest soles are soles and the controlled highest soles and the controlled highest soles are soles and the control to the Graigne Lock. That could be easily remedied

to an original to the second of the second o

854. I really think you want to see more dredging on the river?—Yes, and rocks blasted, and the scout-

remedied
365 Goods that you cannot take by canal, how do
you take them?—By rail, and we have to cast them
on miles. The dustances from canal to wait are —St
Mullins, about 5 miles from Enllywishna; Craiger, 6
miles from Engrary (Genebology), 1 mile from Goodbriggs Station; Bagnalstown, 1 mile from obstoring
Engroud Cover Stations, 2 miles from GoodsEngrous Cove Stations, 3 miles from Goodsigners of the Stations, 2 miles from Goodsformer Cover Stations, 3 miles from Goodsformer Cover

(The Sub-Courrities then advormed to the following afternoon, at 2.30):

Leighlin Bridge Maltings, 4 miles from Bagnalatown, Malioud Maltarge, 1 mile from Malford

Mr. Lindsoy.

866 The Barrow is worse than it was before the spikesp. Has the Gund Company let the Barrow Navanton Company was not a prespector concern 807. They paid \$\frac{9}{2}\$ per cent. on \$250,000 capital!... es 866. There is not much of a margin for diedging and pkeep. Has the Canal Company let the Barrow upiters. Has one Canal Company No use Zerros Navigation down !—Yes 259 H Obey have not let it down hadly you have

Mr. Hannen.

870. Would it be a correct summary of the ovidence the waterway are necessary, and (6) that there is a deficiency of water at certain notate!—Yes

871 In the case of those multings along the canal is there any competition !- They are well served by the

Chairenan 1 We are very much obliged to you for the information you have given us, and if you send us in the Report of the Links Bost Owners' Association it

THIRD PUBLIC SITTING: WEDNESDAY, 1179 SEPTEMBER 1918

In the Oak ROOM, Massion House, Durlan, At 230 PM.

Mr William Field, M.P.

Mr. W A. Lindsay, M.P. Mr. Matthew Keature, M.P. Mr. Patter MacNutsy, Sprettery, SE ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR,

Mr. W. Hudson, M.P.

Mr. H. Pitttaira, Goneral Manager of the Grand Chanl, called in; and Eczenized Charrens. Gheartness-continued.

572.3 Mr. Phillips, you will be able to give us some evidence about the Grand Canal !--Yes, I hard you in a man of the canal. Of course, the notice I received to pispous a nistenant was very short. However, I have perpared a twe breds of information. The risks have perpared as the weeker of information. The risks to Hilliamston, and work also branch them in follows:— Mour into, Rever Lifety to Belliamston, 903 with a United States and Constant and Constant and Constant and Constant, 71 miles Fullycomean to Killicegan, 804 miles [Kenderry Const.], 1 mells — squain [198], miles Cornello, 72 miles [Fullycomean to Killicegan, 904 miles [Kenderry Const.], 1 mells — squain [298], miles Cornello, 172 miles [Ferri Sarroy, 81] Milliam to Waterford, 325 miles [Ferri Sarroy, 81] Milliam to Waterford, 52 miles [Ferri Sarroy, 81] m roun, ose mass. Inso orana cases is an practical trader on the Ever Shunane (the property of the Government), the tells paid by the Company amount-ing to an average of \$2,105 for the peat 5 years, and in one veer \$2,078. The dimensions of the boats which can navigate the canal are .- Largin 61 feet, width 12

Georgea-continued.

Inches, berdway & feet. The Georgean cerry tradic to the towns on attacked using bell, which includes the towns on attacked using bell, which includes the continued of the c is relied on very largely for the brassit of all kinds of goods, the brances of grain, giain produce and manuface amounting to security as 100,861 beau in 1923, of which 1932 leans were carried in the Computer's larges, and 40,900 beau by tradeer. The total binning carried in Computer year was 500,000, of which 174,650 were convict in Computer binning, and 147,650 were convicted in Computer binning. The Telephone 1930 balance, and 154,550 beau were convicted by the converted to Other navigation traded over: Birer Shaunon, 18 Other nasignities iraded over:—Marya Shannes, 125
mailes; River Barrow, tidel position, 35 miles—equals
155 males "Otal SS12 miles. Population of towns
served by the Company, 432, 233. Total tempage carried,
1912, 208, 2631. Total tempage carried in Company's

Charmon-continued harges, 1912, 174,551. Total teenage auroed in by-traders' barges, 1912, 154,550. Tennage carried to towns where these are no railway seav.co., 12 months to 30th

Mr Zindsoy

11 September 1918 3

NM. I gather those figures are in the Blue Book 1— Yes, or whiler in the series of Bige Books. Of course, their wave grants given by the Government, which are multided in that size, but the Company had to find \$15,000 in order to ben'th the count 105 ft in 100 km count Company. Let 1—Yes. Of compt, if was recommended in 150?

876 The Government grants amounted to \$381,000

My Field

377 And the Company found our \$500,0001—Yes. The greater part of the money granted by the Govern-scent was unkepted. They component on wing them in building the count, and they had to suspend the give hom 26, but the amount was never park. The fasting and ground deals at Blaggerint were completed in a short the year 1950, and cost Error Lifts. The error of the fasting declar self-k arcset, the groups is 3,000 deed break, and the depth of water in 18 lead-word in 150 feet is length in 45 feet on other section with the contract of the section of the con-cording to the section of the contract the dec-lar to compage may have deep the con-tract the contract of the contract the dec-fined of the contract of the contract the dec-tar to compage may had on the presence except these on the doctor on wouth Grand Cornal toll shall be paid will be allowed a drawblock of Lid, per ton in the case of calling results, and Id per ton in the case of steamers, on the bosings so received or discharged. In the year 1812 about 283,000 tear were descharged and the year 1818 dock. As regards the davelopment of this canal, it is difficult to say what can be done what that anall, it is difficult to any what can be done where yer take into account the decreasing population, and his fast that there are one properties of the con-line fast that there are one to the Report of the Report Occasions on Chands and Watersteys, there were \$1.133 possible per septiate affects to several Hellands counties in our Chands of the Charlesteys, there were comittee in the contract of the contract of the period of the contract of the contract of the con-centration of the contract of the contract of the period of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the

Bot Owness' Association who were communic — Means Office, F. Thompson and M. J. Marphy B. was stated that the eaxal was not condorted on a public highway, that it was devoted to the interests of one Ompany, the River Earrow being regarded by the Company as a feeder to the estalor me company as a freeze to the exteal. Regly — The River Raptow section of the Ottoparay's system as worked by the Company at a lose. This is in conse-quence of a war of lakes, which commenced your after this Company paralised the Extraw Navigation in 1804, and or increased cost of maintenance. Notwith steading this the Company have maintained an effi-

It was stated there was a shortness of water on the section from Nass to Dublin, due to the sale of water to different parton. Begly —The water said is re-durgiant, said is taken in two cases at a point new Dublin, from which perint those is alleway a sufficient a many tempony at management seek as now considering purposes, and in returned to the deck, and cannot, therefore, affect the manipolism. Since 1885 there have been no new pipes put in on this section, and a samble of old agreements for water supplies have been cancolled, including a very large and important waysh to the Dablin Divillers Oregany, not by reason that these supplies affected the levels of the canal, as the water taken was redundant, but merely that these water taken was pedundant, but record time some macro of water did not require supplies any longer, some of them having gone out of humbers. The restriction on eatput from the broweres and other dustilleries have also reduced the quantity of water taken from Evalence was given as to the want of dredging, and that heats on the River Barrow were able to carry only

Advanced a sheek I now hand in were accounted with the Committoe.

Want of day decke.—Begly —Yhs Company has were day deck at Pretchedin, where used of the best pretched, where used of the best ranking set that, and Corlor, all exclurely used by bytesfeek. There are also does at Empreson Barbors which are clore strained by the Corlor and Sharman Harbors which are clore strained.

Landing and wileoloding, called the Company to the Company Sharmon Harbour which are cites as a constant of the Lording and unleading under cores. Reply—There is no abbigation on the part of the Company to ground this accommodation for by-traders. If all provides the accommodation were application abcold

growthe this accommondate any post store are available, application should be made for the use of them. Many by-traden have stores resided from the Company for aboring traffic curried over the casal. Reference was made parties. Application should be made to the Port

Attention was colled to floods on the Barrow, and the Attention was could to account on the many, make one of that in to eight horses are sometimes required to hard houts. Reply—The impaly of water to the Rarrow is derived principally from earther water, and in the upper remarks in winter extensive flooding takes place overy year. The matter this iben the analyses of several parts of the property of t on an control. Un account of the supply being surface water the inver sums to a very low level in animariner. Bouts have to be built specially with dat betterns, and, although this is done, leads have to be frequently welred.

requently reduced.

New dock helow 8t. Mullins —Reply —The Company could not undertake to build this book. This question world have to be sattled when a large disamage.

person see milts, not unpresentely in a report like this little is said of the virtues, but much of the faults." The date is the 15th Oriober, 1997 Mr. Henney \$78. Your trade on the Shannon is subject to the Shannon Nangation - Yes, we are subject to their

Mr Lindsey

279 You are by-traders?-Yes. 880 On that system, of course f-Yes 880s. Not on your own !-- No.

\$81: Sapposing

MINUTES OF EVIDENCE TAKEN REPORT THE

11 Scotember 1918 1

\$21. Supposing you were lightering a ship may at thiose, what deaft of water can you take there in your lighters t—About 4 feet 5 inclus. We carry in our own bests an average cargo of short 40 four. Of \$82, Is that due to the creatal t—Strat of all there to the question of quick transit, and more than 40 tons in to newly fee above. Our handlep is hower and moter. To got a horse to heard more than 40 tons is too hand with

wark \$85 What do you do with the motors 1—The meters are about much the same. When we put on these maters nearly the whole of them were put use of the canal botte. The appears of a new fiest would be care notes, but it would be more communical in the end accornates, but it would be more communical in the end to build now beats. You could not, however, scrap the whole free of existing beats, the majority of which were good boats. The result was that we fitted the autor sugmes into some of them, and were not the to carry more than the horse-hauled louts.

885 Of course, the old boxts were never designed to receive mechanizal appliances at all 5-No.

Chairman 386 If you lighteed through to Lonesick, what draft of water would you have !--We could earry almost any draft of water from Lamerick. The river is very 837 Are not there sections of the Shanner very difficult!—There is a canalised part between Killalor and Lonerrole, but still an 30-ten best gom up. When yes come on close to Smunther there is a very lares

888 The Victoria Lock!-Yes IN The Venera Leek'-res.

SS. The idea was to have shear margakism in that
perfice l-Yes.

\$90. The old "Buckess" med to run down from
Athlens to Killshos!-Yes.

Chelman 891 What time would it take a laden barge to go from Dublin to Bunigher!—Two days.

Mr Horner 896 You are talking of motor driven barges?-I am

835. Has any estimate been made of the past of deep made by a weember of the firm of Neisse Remarkyn. It will pain a best before the Casal Community, it will pain a considerable of the Casal Community and the second and the

Mr. Harrison

594 It would mean transhipping when you got on to the Shannen — Yes We have to do a Little of that at wround. That, of course, means not only exposes, but great delay to goods

Mr. Full 806 Is there any mrangement between your Canal Occupany and the Great Southern and Western Bail-

806 Has the effect of that pooling arrangement been to dominish the teaffic on the canal !- Well, I will

Mr. Field-continued.

[Continued

meaver that in this way. Previous to the year 1000 three was a war of rates between the Grand Conal Company and the Grant Southean and Western Rad. Other two and the Gents Southwar and Western May, which threshessed to because it came of sortionized. The Hallesty Ottspany lots a ensured as an of more threat of the control from the state of the control from the state of the control from the state of the control from the con

Bailway Company which was not, struckly speaking canal Sentisty
597 The sphere of influence, I think, is what the
Balleay Companies call it!—I will explain what I
sand by relieving the Balleay Company's territory by
an oxample. In order to bring the Railway Company
to its latence we started a service between Drocumes
and Nanagh and got an environment of indice
and Nanagh and got an environment of indice
we have been also been an open of the processor of the properties of the property Company
we have a first think the property Company

Mr. Hesna

506. This agreement appears in the Oanals Commission Respectit—New The Chinal Company as A commission Respective The Chinal Company as A commission Respective The Chinal Company of the China Company and the State of the State of the China C price of motorials was going up all the time,

Mr. Field

899 From the public, of course?-Either from the public of four somewhere also This agreement with the Rankery Company proved to be astisfactory for the Canal Company, and the result was that we were ablo to mast our increased aspenditure without raining the

to meat our increased superdictive without related to the mean the public means that the means that the mean that the mean that the means that the mean that the that Grand Chenl Chenguay and the Grand Stathers that Grand Chenl Chenguay and the Grand Stathers that the mean that the mean that the mean that the La prod of this statement of muss I refer the Chen that the mean that the mean that the mean that the latest that the mean that the mean that the mean that 1500 means that the mean that the mean that the 1500 mean that the mean that the mean that the 1500 mean that the mean that the mean that the 1500 mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the mean that the mean that the mean that the 1500 mean that the 1500 mean that the me 908 On certain portions of the Barrow have the

one on certain portions of the Harrow fints the brillities been decreased to consignors or to sairs of private owned beats. I will give you the name of my informat—Hz Ward and the place—Begnalstown, Co. Carlow, Mr. Word add that years ago there was an enormous number of canal bosts on the river at Barencensus number et canal bissis on the river at Bar-aldstorn, in I shet there had been a match decrease in the number of service ormed boats now isolate or the number of service ormed boats now isolate or arrangements—1.5—B. to compare the first in the Grood Canal Conquery's boats. Take is a very important huge to know. It is no our advantage, that on much traffic as possible should be carried in the service of the control of the contro by-treated we have a second to the control of the feverences control we become do not be formed to the feet of the feverences control we become for the results of the feverences are not seen as the feverence and the second to the feverence and the second to the feverence and the second the feverence when the feverence we have not be care. The recommendation of the feverence when the feverence we have not be care. The recommendation of the feverence when the feverence we have not be care. The feverence was the feverence when Mr. Princips.

Mr. Field-continued whene of payments was drawn up by me, which was

greated core of materiary, and an iritia silks of thing Sono that, a few months ago, the Boat Owner, Asso-cation made on application, which the Const Gor-pany brought before the Control Committee, and the

COMPANY OF ORDER AND ASSESSED at agreemental produce that will be moved in about a fortinght's time will be vary beavy, and it will con-tinue until May next, but the whole difficulty is gat-tung trained boatmen. The policy of the Canal Company so so excourage one treaspers of eightenium that other produce by carel, so as to reduce the demands made on the pullway companies

Mr. Hannon Mr. Hannon.

569 You spoke just now of the difficulty of getting tenined boatfrow.—Yes "Ill may seen an easy thing to arraygate a contail boat fast in the yes of sean so easy remiting of collinease with passing bests, requires tradeing, and yet onessed bring your beststens of the sixth effects (26 Toy have to learn the route!—Yes We unsupply the them as grown boy and form them. At the

Mr. Field. 977. That is not an insuperable difficulty. You should teals a man in a short time. Navigating a creal beat is not the same as navigating a Canadeer-We have men on the bests on the canal drawn from outain distincts, and they will not seek with non-drawn from other districts, which are, perhaps, 50

Fig. 1 way

108 Three is a sort of geographical trades unsurf—

Yes. The men who handle the fist-betterned basts that we send to the Barrow are drawn from Carlow and Graignegamanagh The Graigns men will not go into the loads with the Carlow men, and vice verse We have other men, drawn from Kilkenny, who will not work with men from other distrots, and so on

(9) I bright, it is a will that that should be made profits, because these undersholders in an impression—I may be a support the profit of the profit of the profit of the profit of the many contact pr. —I quite agree that there is their agreement. The profit of it is an impression that it is wrong. The profit of the pro 203 Was not this canal expunilly built by the Irash Participens I.—The directory of Inland Nevysator com-menced the work, and appear to have maded the meter Mr Suid I Most Government Departments do 0.178.

20.54. In whit you have been saying to Mr. Nield the englishation as to why coult is failed to the Carlier (fine. Weeks by reader) as saled to the Carlier (fine. Weeks by reader) and the property of the pro Mr Lindson. 915. You don't eater for the coal faulte to Carlow !--We have outsed a considerable quantity of it. We are extracted by Art of Partitionent from carrying coel

Ofr. Horsen. 806. You can refuse coal?—Yes, but we try to carry it if possible, if we have the time to wish not the boat and let it dry. That is when we are not busy.

Mr Lindsoy

917. These was a natire raised by a witasea yester-sky in reference to the Europee. Here does your jurisdiction and—Our cheerier is to the Sean, most 201. You go believ the lock:—Yes 335. The witasees yestering yangsated a lock?— I am of spinion that it is believ the Sean I think the Fleet of Nov Boss sessenses primatiction as the ra-

920 It appears that your load of 40 tons is very small compared with the load taken on the Lagan 1—1 think the locks are a bit longer there. They are wider. 821. Your dimensions are given as 61 feet by 134 wale; draft, 5 to 6 feet, and the headway 9 feet. Pive

where a rather more than what is tried.—It is
Of course, you probably get these figures from the
Report of the Royal Commission on Charle.

22 Yes; they were supplied by you!—It appears
to me that there were a number of creese in the pushang of the Report. There were numerican mulaises in argo of the locks. to size of the rocks. SES. In the case of the Lagan, the length and width

the state of the best of the stage, the significant will be stated to the stage of the stage of

327 The Beard of Works are not responsible for the lower Shemson t-I think they have semesting to do

with it.

908 Is not three a Limensk port !—I think the
Board of Works has something to do with the lower 189. On the whole, the Shanger is a really fire revergated |--| 11 us.

\$300 And there is very little tradic on it 1--| Yes

we promotically the only turbers on it.

\$501. Yes will go to Carrielone-Shannon |-- We do

\$620. Once a work |-- Yes. Up to this year we went

whole a work in the summer, but we have teduced to

Colonel Gretter 933. Are the same beats switched for running down the Shamton and the Eurow and your whole count ayean.—The beats on the main line of the canal are not satisfied for the Barrow. One of the perculsarioss of the Barrow is that it is supplied with surface water.

We kently the heats with flat hotisees for that section. 234 Did you find that the motor beats were more economical than horse power !—That is very difficult to answer Daring war times we don't like to make comparisons owing to the cost of all things required to the nakwey of the canal being infinited. These are

no true prices to enable you to form an estimate wince the way began, and to take the figures of 1952, when we had very few moder boots research, would be no not We are wanting until the war is over and things become normal again to make conjurisons

835. Have you formed any opinion of the mater?—

936 And the men have to get higher wages!-Yes

SOT Als the notice hosts are repell—Yet.

\$32 Whit is the constants in fine?—I suppose
it would be have been been for the first of the suppose
it would be have for the first on another
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overside from a cross-Channel seamer. In fact, you mught say it counts be done about the will come in 600. For what reason 3—The stoorer will come in 600 for what reason 3—The stoorer be for the contain. The county of the contain o

The cross-Channel steamers are on the north

—Yes Most of them We send books to the
under heer. We have a steam tag on the river.

265. Even of you have not taken them full!—Yes I can put m a statement regarding the different com-Colonel Gretten. 944 And if you could divide the main line from the

Barrow it would perhaps be as well. Is there much difference in the class of traffic carried on the Barrow and the canal t—It is very much the same
945 There would be no accessity for any division
in the return of the commodities carried t—No, I don't

900. Can you inform no what your rates on the canal are compared with the rathway rates?. Our rates on the canal run, according to the class of traffic carried, from 5 to 125 per cent lower than the rathway rates. Mr Fedd

947 In most cases?—With the exception of a few cases where the rates have been cut to such a ridicachion where has rates nave neer cat to been a cruze-lous figure by the Railingy Company that we entry at the same rate. Speaking generally, the rates as from 5 to 129 per cost bourt than the railway rates. If they were not it would have been impossible for us to large got this 200,000 tone of stuff we curred. on his got that adopts one of sum we carried.

988 In report to the agreement with the Realway
Company, when was that made—In 1900. It has
worked out to the benefit of our Company.

992 Are your books inly occursed—Yes, on the
whole As times things are a little hit slack. You
might have a let af rando one way, and the other way. it might be very poor. The moment the agricultural preduce begins to move we want all our beats to carry the stuff. We will then endeavour, if the by-trulers toll for the journey.

the by-traders sufficient to earry the traffic on the cored -- Not in the busy time during the war, but the vices, because we will be able to got trained men 161. Have yet funds to provide the beaint—We him

\$52. The difficulty is in the marring of them !- Yes. Mr. Hausen

955 How long have you been Genoual Manager of the Company 1—Four years. I may also say that I say 37 years in the sortice of the Company, 984 During year 27 years' expenses do you think fact on the what the relations between the canal and the trading and farming community have been fully established.—Fee

Yours is the largest canal system in Ireland?-100 256 And you believe that the Company has given satisfaction to the community as a whale 1—Yes, and in that connection I have to again asier to the introsect

tormues of the oxnal tomings of the canal.

997. Proor the figures you have given us, I see that
50 per cent of the items on the canal is carried in the
Company's heats and 44 per cent in the private owned
leads I—Tes, about that; I did not make out the per-

958 Does your Company in any way discriminate in determining rates on between beats owned by your-self and the bosts owned by by-traders—is there any way in which preference is given to the Company's our boats as regards rates !-- When the traffic is curried beats as regame rates — when the trime is carried by the Occasion's beats the rate charged to the custemer is an inclusive rate which covers all charges. In the case of the by-insders he pays as full, which is for the maintenance of the canal and the upleep of

for the minimum of the condition the sphere of the lock-keepers. He has to pay for the upkeep of the keet. He pays a smaller amount than what we get from the sander who gives no goods to earry. \$60. The maximum amount of the tell is fixed by the Bod The Season amount of the test or neces of y-Lord Licentenant — By the Board of Trade Possibly in older times the Lord Licentenant fixed the tells They are fixed by the Board of Trade. They are fixed by the Board of Track.

999 In the determination of the manneum different from the Royal Canal I—a for as a throw the Boyal Canal I—a for as a throw the Boyal Canal date not as a throw the Boyal canal dates not act as carriers. We do, and our rates are fixed by Act of Parlament—by Provincian Condensated by the Board of Trade—both rates and tells [161] and the throw the control of the Control o

passed by the Board of Trade—both rates and tells tell Just tell in a short the centred of the Grand Caral. Yes talked about the Board of Coursel!—It as a called the Durised Communities. First of all these are called the Durised Communities. For all these meets of the Board of Trade. There is an Irish Sub-communities, which stir no Dublin, on which three are three representatives of the Board of Trade. Our Charmons, Mr. Walfton, is on the Communities, and Mr.

fereite of the Canal (Compiny)—There are only two Canal representatives on the Board—one represent-ing the Neeth, and the other the Board—one of man, Mr Walfron, more representative, 1953 In yours the same expertence as in the case of the Royal Canal—dust the Board of Centrol down not most and ensures control—No; it is entirely different The Chard Corte (Cornwillies has repular mosting)

in three weaks.

955 Was lund of returns here you to eard there 5To the case of dispute, they sak us for reports. They
also sak us for a return of labour, the most engloyed or
corbain duties, and the statistics of the teafin carried.
They koop a close with on the coad, . These returns

11 September 1918.7 M- PRITARES

My Honson-continued 966 And they are published, I suppose, in the annual returns of the Board of Trade :- I don't know

neally.

Soft. Bees any portion of your conal go through moco-less and bog t.—Yes, through the bog of Allen.

Soft Do messamently drives harges affect the banks's

all moments as increased cost for ministenance. Where by more than we anticipated. At the same time we have not considered the question of abeliating the mechanically direct brade.

mechanically drives below.

200 This the section of a count running through a
bogy district, how much do you think the cost of mantenance would be inpressed by many mechanically
drives barges!—I am not in a position to give any
figures in connection with that beyond saying this—see águse in connectici with that tolyout exyrig time—or faid our maintenance charges for the last few years have increased, and we attribute that to the mechani-cally driven books. It is a very difficult question to answer encept in a geomal way. Suppass our ex-pendituse on maintenance was increased by £1,000, there wend he the difficulty of allocating that extra

970 Could you not differentiate in the way of looks 971 Mechanically driven bonts would not affect the locks?—Yes They are more liable to strike a lock, and if they do touck it they do mace damage than home-hanked boats

Mr. Haunen 572. The representatives of the Canal Beat Associ for the representative of the class and allowing the mide charges against your company in their endance yestersisy, but I think you have dealt with most of them. They say that the dradings of the casal is not carried out as efficiently as it might be left is exceed out as efficiently as it might be left in the course out as efficiently as possible. We have two not curried out at efficiently as it tought belieff is cetted out as efficiently as possible. We have twe-rient divelgers and one hand divelger working from lannary to December. In format years we never worked them in the wrater mouths. In the very old days they were all hand divelgers. Thirty years ago the company had nothing but head divelgers. We have he two steam divelgers and one hand divelger. I will hee peo seem dredgers and one name dredger. I will put in a statement's regarding the dredging. I have it here I find for the half-year to June, 1917, dredging out 2550, belifyear to 34st Doomsber, 2504; 30th June thus year, 21,340. I also have the dredging par-bonless for the time Barrow.

975. What about stores? Do you say you are not bound to provide storage accompodation?—No. There

this a distinct there. He has a general believes the base of the post of the base of the b rabbe stillity. piblic attility.

'70: Perlayer you would gatever the greating Lyou of 70: Perlayer you would gatever the greater date in your judgment if the Godding seed-smoothers in the post judgment if the Godding problem makes on at would it recognized you the white work would not recognize the recognized you for white the recognized with the post of the date white would be recognized to the white but you could increase the recognized the size of the deep key or could increase the proposed of the post of

Mr. Kestina 575 What is your reply to Mr. Shackleten's state-ment that there is a differentiation of rates in various

* Statement not received.

Mr Konting-contigued,

parts of your system i-Unfortunately I was not pro-sent to hear the details, but I shall enforcem to answer your question. Probably at the time of the war of the case of carrying companies. It is quite a common thing in England, as well as in Iroland, to have this differential rate we will call them where rotes in one

997. Thank you very much. I wanted to hear what you had to say on this point. You used to run a service between Waterford and New Boss?—We have 978 It is still renning !-Yes

979. My information is that it has been suspended indefinitely?—No Our boots are running these right layle. Waterford in our bermitten at that ead. We

on Now Ross.

33. With regard to future developments, have yet considered the possibility of splitting the possibility of any considered the possibility of splitting the country of the possibility of the surface that the country of the possibility of the surface that it reads not be surface that it reads not be considered to the country of the surface that the surface th augm so see well on the continue, where they have onermous traffic, but it night result in the question of puting up poles and traffleys. It would be a matter of enermous expense, and I don't think the traffic of

ecorpiess expense, and I don't think the traffic of the country waste warmain; in (60). You show't shink the extra volume of tends would jurily it had would not come. My opinion as that what as at the root of the whole matter is the warm of infestings in the Wast. In Warford we have a few industries, and in Waterford and Orik. You have succludy no infusings in this West. 1982. Manufacturing industries are what you would got !—Yes. There is a complete dearth of these in in West of Ireland. the meet of fredand.

985. You would not recommend the Committee to seriously enoding the question of electrically driven apparatus?—No, I would not think so

964 Your tells are fixed for you !- Yes. Yes, but we ... of Parliament.

285 Do you keep your trading accounts esparately from your cannot accounts, or do the profits that you make on your trading go mis your const accounts?

a carrying account.
687 You said that if the by-traders wanted to put
up stores, you were ready to give those greend?—You
688 On what sout of lease. —We give three a long
lease. We are only too glad to give a!
689 Are they allowed to be other people use of I.
When me give a wise for a store no pirt safe the lease
a condition that it is to be used for easily purpose. for tenthe passing over the canal, enserwine users would be no use in giring a till \$600. Chn other hydrodess arrange with the people being the sieces to use then h—Yes, we make no ob-jection; in fact, I can give you an instance of that where one customer gave ut to another customer for a

991 Have

11 September 1918]

Mr. Petterns

Cherrson-continued

921 Here you tried using motor boats for towing your burges?—Yes. We have a section of the same between here and Robertover, 25 miles. We have a level on the onnel for 20 miles long, and from the communication of that way we tow the barges right.

Mr. William Tamow, u.s.i., Director, Aragua Mining Company, called in ; and Estimated

994. I understand you represent the Arigua Mining Company, Mr. Tatlow 5—Yes, six. 995. You can tell us something about 167—It has been mining for 30 years, and 16 to adapted in expliciting anthrecte The iron ore and five-clay commet be worked for want of transport. The five-clay occurs as worked for want of transport. The first-sky occurs as a 5-th nearm and unwise good brisks. The zero ore is attracted and of good quality. In the row ore, three is breas 55 to 95 per cent. of our and over 60 per cent of the contract of this cen in the valley. It consists of positions of this cen in the valley. It consists of position of contractors is thick beds, and three is, as I have said, a cetooderable quantity of this eve in the valley. The out up to valley is do said to give free Aripas Station and up the valley. road up the valley is \$\frac{3}{2}\$ miles long from Arigan Station to the nimes. It is very bad, and impressable in frest or snow A railway extension is now under construction. It will cannot the miles with the Cansa and Leitzun railway, and the cavings will be done away with. In order to utilize this new mileray and the fossibilities which it will afford, the capital of the Arigan Miling Company has now been increased to a large

Mr. Honson Mr. Homose

Mr. Ho Rossky acar the termans of the line at Drescoi. It is very important to counted the name with the Stamon savigation because (1) these as considerable to a large of the name of the considerable to the savigation of the savigation of the control of the savigation of water over the Shartene-Chernel, Athlians Banajher, and Jorna on the Boyal and Grand Caulls The Boyal Chernel Caulls The Boyal Chernel Caulls The Boyal Chernel Caulls The Boyal Chernel Chern might in improved to this larger of 200 cm smaller), and the improved to this larger of 200 cm smaller) and the proper control to be transite the control to the proper control to the first control to the control to the first control to the contro navigation their serious consideration fix saw in that the improvement of Lough Allen Canal is the bust others, as it would parall of the use of large barges right from to Linarick 982 We will ask you to put in your half-yearly accounts for the last 10 years 1-4 shall do so

Continues

Mr Phice 998 Is there much change in the rate of tell for 10 years !- Very little-a very small increase,

Chairman 908. What is the length of this new rudway that is

under construction !- About 25 miles: 100 It is a merow gauge!- You. It is an extension We have gauge 1000. Are you arwanging in case the standard gauge 1000. Are you arwanging in case the standard gauge was down that you would put down a third real two the Based of Works are building the railway.

Mr. Hosnes. 1001 B is being constructed as a war measure!--

1002. Have you any estimate as to the cest of in-proving the Lough Allen Caroli — Not personally, lat 1 believe there have been cettorates. Between \$20,000 and \$20,000, et as stated, would make a good cand of it, but I really cannot substantiate that figure areas.

Mr. Hosnes. 1003. Is it not the fact that this whole question of dashing with the development of the Arigin distinct is no old in the present generation or the generation before I—Is is very old. 1994. It is generally accepted in this country that the development of Angua would encurrently increase the wealth of this country 1—Yes. 1995 And is it not a best that a series of private

1008 An in fact the key of the while difficulty has been the question of getting a railway to some port or market or some place to control its communities or distribution. That is right 1008. This fact has arisen out of the war-that the Admiralty has recognised the unpertance of the Aruna district as a coal-producing area !- The Government

has recognised it.

1010. Anylow, you have this to your credit in now
proposing to sak assistance from the State to divelop
the district, that in the middle of a great way the the district, that in the middle of a great war the four-most field that it ought to extend the existing line in seder to allow yet transport facilities to give your-cell out.—That is being done.

1011. You think the downlymout of wells campage would be most important in gleing the minimal pro-ducted what regions over the country.—You district that region over the country.—You

would pass through large ships as compared with the counts

5015 Are you owate that a very successful experiment was carried out taking coal from the Arigna region before this line was extended at all, and taking it by switer to Duklim and selling it is Duklim as a is by water to Dublin and stong 12 in according to the beamest proposition 1—The expectment was tried, but I den't know if it was accessful 1204. We will get other ordered, on that 1—I den't think this count in its present condition read permit think this count in its present condition which the count in the present condition which the count is the count in the present condition.

of anything of that character arong.

It was brush

1055 You sand that there wis no entirests made of
the cost of making waker destilities efficient for the
cost of making waker destilities efficient for the
correspond of mineral products at present Lough

Allow is not now practicable—No. 1 thank roughly

and thank roughly thank roughly thank roughly

thank roughly thank roughly thank roughly

thank roughly thank roughly thank roughly thank roughly

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thank roughly thank roughly thank roughly thank roughly thank roughly thank roughly thank roughly

thank roughly than 1016 And the output would be mercased from 85 to 350 tons a day 5... Yes, when the new railway is finished we expected to have that increased My TATION

Mr. Hownes-continued. 1927. It is a fact, I believe, that various repre-sentabless of the Government have given different esti-mates as to the predictive capacity of the Argus Spinci 1—76. There was a great difference of

1908 I suggest that it is worth the while of your pany, to put all the energy possible into the develop-ment of that region, and I suggest that you ought to present to this Committee a measurandum embertying. the history of the development of the Arigus district; secondly, the commons advance that has been made in previous experiments; thirdly, the estimated cost of making the canal efficient as a modern of traveport for getting rate the Shanzon, and, fourthly, what amount of local support will be forthcoming in the

1930. I am afreed we connot develop the transportsnon?-That is the whole curstion. Colonel Gretton

1021 Where is the Lough Allen (famil?—It reaches from the south point of Lough Allen parallel to the Simmon to the form of Lattern. There are rocks in minute or one town of Lectron races are rocks in the raver, which necessitate a fall of approximately 22 feet in the raver. 1022 If the Lough Aften Canal were made neeful Minorials must be transhipped under present continues using the partner span feeding a local gauge, so that the transhipping relocal gate local gauge, so that the transhipping mito the harpes would not be more senters taken in transhipping from cas wagen into another. Transhipping damages the coal 1203 To what another day ou want to get year coal 4—Larrecoik we find it a very good marked. We would also like to lead of down to the minds of some—Maillon.

gar, Tullamore, and to send it to Currick.

1033. Would you consider sending it into Belliast !—

No the consists would not serve

1225. What about your item see?—We would have to seed it to England for smelting. Of course that is a difficult question, but you ore has uncreased in value. 1225. Where is the depand for fingitunes?—We still then all over the country.

1007. There is a general, not a localised, domaid!

-Yes.

1008 In there any difficulty in getting labour to work the minerals —Up to the present we can get quite enough labour, because we are limited in our quies cough labour, because we are insisted in four copies by the irrangeet, but when the isomorpat-ficilities are imperied, we will have, no doubt, a strugate to get energic labour, but we anticepate we will be able to get it. Many of our young mon go to the name in Section. If we could give them em-phyroust, they would remain at home. We employ 90 of 40 mm for carrieng, and they would be employ 90 of 40 mm for carrieng, and they would be employed. taining.
1003 What is your maximum output of coulf-

12,000 tons is our speximina-1030. The cross names are practically undeveloped? Mr. Honson

2001. About the quality of each was at not the cost shat at each tipe in the laws and letting line peed south and English coul. —Yes. We could use peerless of southern appearing by these if thank the rathered control of the country rather and the country of the

1054 is any of your coal used for ships' bunkers !-I think the sissen coal we have would be quite suit-

Culouel Gretton-continued 1936 Have you taken advect!—No, we never sent to to set expect. I have seen it stated that our coal was better than the Scotch coal—that as, our new mine. The new mine is running for about two years.

Mr. Lindsoy. 1656. When this railway line is made it will do nway with the cartitut business?—Yes, we will load directly

subt the circling business?—You, we will load sirrelly tab the exgourge to the briggs at Drumshambo, you will have to path in a soding?—You. 1998. And tap into the burges!—You 1998. And tap into the burges!—You 1999. You said you throught finat an 30-ten barge could go to Linnarite if the Lough Allen canal were put mills order!—You

1940 Have you seen the locks?—Yes. These was evidence before you to-day that un 80-less beat came through the locks. I was informed of much the same myself.

1041 Of course, you know that the Lough Allen
Canal to m a deplocable condition, and do you think
you are not under-estimating when you say this
\$25,000 would get it into a good condition!—That was the figure which was suggested to be sufficient.

Columni Gretton 1042. Was that a pre-war estimate !-- I have added something on. I think when the war is over it would be a late estimate. 1043. You would have to reconstruct two looks-one

of Brandague, and the other at Battlebudge b-Yes.

1044 Yes are going a very long way down the
Shannon when you are going to Limench, and the
question armses is it worth the expense accessing rather than try to use the rail or possibly after the guage and make at the standard gauge. I am absolutely opposed to the narrow guage i—I quate agree

Mr Fold. 1045. Do I understend that you are here in the in-terests of this coal field, the fireday and the iron ore ?— Yes Without transis includes it is impossible to tes whomat remain management is ampositore to hereboy the from ore of furnelsy. 1000 Is the great difficulty to the dovelopment the want of imagent!—Yes. 1047 Have you say toba as to the quantity of coal as the district!—The distinct is said to contain from

1045 And at present, how many tens are you able o mine in the year?—12,000 tons by our Company There are some other people also working in the 1042 How much altogether!—About 20,000 tons 1050 And that is mainly in the locality?—Mostly, 1050 And that is mainly in the locality?—Mostly, 1051 Is the Lough Allen Canal weeking at all or as it describe?—If they it is describe.

1662 Harn the Board of Works not maintained it at all !-- I don't think there has been any use of it.

1053. So that practically you will have to reconstruct that const! —I think so I think any expendi-

unless yet reconstruct it in the property of t

fast. 1055 You weald also by able to whilese the Royal and the Grand Canals — Not to the same extent, became the cents book weald be smaller than the beats you could use on the Shannes. 1056 With repeat to the railway, have you thought how the narrow gauge tuffway is going to affect the produce of the name—the currents cody which transshipment from the narrow gauge will involved. The quastern of cost is not so very grave, but the coal is damaged and the translopment is objectionable. 1087 Hare 11 September 1918.)

Mr. Field—contained.

1057. Have you are experience of the fireday?—The flags are the only things we sold as recent years. We sold a certain number in the country unit recently, when we put our whole energy into the east.

sold a certain number in the country unit recently, when we put our whole energy into the east 1058. I would suggest that you would give as a kird of supeque of the whole brances in regard to the Arigan district—My proposal is to impress on the Committee the importance of the opening up of the

canal. I believe it is practicable.

1693. You would have to give in econo evidence
before we could adopt that. You have given as very
listle definite information. In two or three days you
cannot chaps very much information of the character.

you require.

1660 You might send into the Committee a statement later on 3—Yes.

Columb Gretisu.

1061. Hight I ask if you know who are the owners of the Lough Allen Count -- The Board of Works. They you the Shanney navgation.

Mr., Elevano H., Assusara, D.L., President Dublim, Chairman. 1000. You know our tenns of relevance—Burty will. 1000. You know our tenns of relevance—Burty will. 1000. One shot is looked the believe for sunspared atforded by the peris and smalls in Instant, and we say very arraness to go informations as to write on the other borness to predict the state of state of the state of the state of state

of past of the pas

Colonal Gratton—continued 1962 It is part of the Shanson navigation I—Yes, It is not used. It has been practically abandance.

1063. Do you mean to say it was built and never used 1—At one time is was used, but I never heard of anyone using it in late years.

Oslend Oretree.

1094. The Committee weak be greatly inflammed by the value of the product as to the kand of recommendations they would make. On you have he was expect oridines as to the quality of the road and more in the August alteraction, they were the amount of from in the row-50 to 60 per cent. In the raw one. This work is the committee of the committee o

por the analysis.

1006 Is it by a compotent man 1—Yes.

1006 As it by a compotent man 2—Yes.

1006 As it by a compotent man 2—Yes.

1008 As also an analysis of the coal 2—Yes.

1008 If the casl and the rors were of a high value

would be able to make a certain recommendation?

1008. If the cast and the row wee of a high value
we would be able to make a certain recommendation

"Yes.

Chamber of Commoree, called in; and Rennined

Chamber—continued.

greatly from through freights. Customers in places in the South and West of Iroland are able to get goods changer from towns in the Midlands and South of England than they are able to get them from Dubins, and something should be done whereby the Irish Bulway Companies would place the Irish manufacturer to the two sures bears as his firther commenter. The ie will known that me coreares assuming at the life relivays is becoming a serious matter. The life partment of Agriculture can bear witness to this Railway porten after their appointment about he lee tured on the handling of goods. It does not matter whether the Bailway Company or the merchant is the whether the Bullway Company or the insectant is the loanry by trobein goods, the loss is occuritably mide by by increased freight. I am very pleased to be shit to say that lately we have been able to make arrange-ments with carriers to celled not only parcels, but the years inclusive charge for delivering geods through-the years included the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-mand of the control of the control of the con-mand of the control of the control of the con-mand of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the whereby they will call at the various warehouses and shops and give an inclusive rate of element in the country. Then in a very givest advantage to the country. We also hain as regards the canals that the matter of translyment is a serious drang. We have strongly supposed Gallany so the site for a Trimsachantic per. As a Calumber of Commerce, we have gene into the stattle very cantellity, and we are strongly of spinton. be the part of call. We think this route wayse see. the journey considerably, and we are not hopeless of seeing before very many years here gote by a train terry across to flelyhead. We believe that to be leasible. We are very much interested in the developsocial, before very many years here goes by a tern ferry across is floshydra. We believe that do is more of the Geiseay results because we hallow that the feature proposition of features is very much dependent action produced of features is very much dependent action produced at features is very much dependent action produced at the contract of the contract of a substitution of the contract of the contract of a substitution of the contract of the term present the contract of the contract of the term present the contract of the contract

are, and data mere morkers measts of propolities the books are not sufficient. We know that we stilled an another than the stilled and the still and the stilled and the stilled and the stilled and the still and the stilled and the stilled

[Continued Mr. ANDREWS 11 September 1918.]

Cherenos-continued. total to Dubling-Yes. They got an inclusive rate right through.

right sarrough.

1004, Is the rate a proportionate rate for Dahlin as against a town in the interior? The rate that you would be charged here, is that higher in preparation than the rate to a town in the interior—das far as I as aware it would cost as little almost to said goods an aware to would next as more among to thin group iron, say, Birmingham to Cotk as from Birmingham to Dublin, and therefore it stands to reason that we

Mrs. Do you blink the Dublis Chamber of Com-serve would endure a proposal that public Noney should be appealed to the enlargement of the lock group access to the Engagement of the lock prong access to the Engagement on the same laddress for greater traffe in the same accessed by the small — White we do say it into some facilities should

be given for transhipping from the steamers to the 1076 There are arms already 1.—Yes, but they should

Mr. Liedwy.

207 About the through rates, you could not our present that it you have obtained by the country of Mr. Lindsoy

or Belfast as to Dahlin. The directedes is pranounly asking it is quality from what you say about passenger force. You are terregist up significant force as low radas to Belfast owing to competition. If the not that your Darkins farce are high, but our Belfast owing these are low. Take to Belfast owing the competition. If the not that your Darkins farce are high, but our Belfast set low. Any particular force are lower to be a set low. The particular force is the particular force is not looked they provingly as it. Belfast, and we want to look after correction in Dahlin.

1000 he it not a fact that the Bublin Chamber of Demarco is the oblast Chamber of Germarco in the United Kingdom I—Yes, it was established in 1793. 1000. Dem before that it was in existence I—Yes. It is different in many ways to older Chambers of

Occupance because we have newspaper recess.

1000 I understand you are a director of the Caran and Leitrim Railway Company?—Yes, and also of the Augus Mining Genpany 1194, We should be Attyna Mining Company.

1094. We should be glod to hear some evidence from
you!—I may say that I am in a worse position as to
gliving exidence oven than Mr. Andrews, because I
heard only at a quarter past 4 that I should be called upon I have not prepared any statement, but I shall so my best to answer may questions you may put to see. With regard to the extension of the railway at the Land to some any distinct part in the print of the Company of

stopped in and got the money (which was ear marked

Mr. Field. 1081. About the through rates, is it your condenters that goods could be sent from any of the manufacturing districts in Great Britain changer to the center of Ireland than you can get them from your place, relatively of course?—You.

1982 And you hold that that is unfair to the Dablin mechanti—Yes. I shall give instances of that in the visconent I shall send in

1000. With regard to the Galway route, have you considered whether it would be an advisable thing to make Galway a Transmittante port for radia and passeages and light purcels outside of the heavy goods that would come in the optimize Transmitantic abounds . - Yes, that has been the optimen expressed by the

1694 Cork is a sea-board?—I am speaking of rad-I am not speaking of a case where the sea in competing with the railway, but of a through rate by a railway company like the London and Morth Western.

1665 Then you think that the news in the interior can really get goods at as low a rate of freight as you can get them in Dubbu !- Yes.

1606 About the Transatiantic port at Galway, have you thought how you would hamile the deed weight in the Transatiantic steamers that would come min peat 1—No. I think that us an expansing problem.

1087. No, it is a problem of what you would do if you take the cours libers into Gabusy. You would do it you take the cours libers into Gabusy. You would bring your possessors and mails to Diktin, but what would you do with the dead weight?—That is a very awkward problem. The same thing always applies, though, to everything that comes into Ireland. 1083 Could not portion of the stuff be handled here?

-Not as Galany is at present, but is there may reason why they should not have facilities?

1098. The facilities are providing the port?—I have not thought it out. It is an important matter. 1000 The reason I saked is because the Chairman put if to you what would be done in regard to the heavy truthe i .- We never really took that into con-esfectation. We never thought the deal weight would

come that way 1991. That was not the microtion of the Council of tipe Chamber of Commerce !-- No.

1992 It referred to the light goods that required quick delivery and possengers and mails?—That is so. Revoved J. G. Dicom, Director of the Givan and Lectum Bashvay Company and the Arigan Mining Company, called in; and Stansmed.

Cheremon-continued. Charmons—continued.

for railway purposes, for the Trabes and Burgle Haalsay. When Mr. Burnell ceate we converted him also
to Argen, and so were offered a Coverment grant,
has we were always up against this local opposition,
and the project has to rest must the Defence of the
Realin Ark came into generation. These we brought model, and earner gibt specified. Since he removed a proposed the above a security of a dear as a best of the security of the 11 Scotember 1918.1 Reverend J. Droops

I believe in that way we will save the breaking of coal Abont our cutput at Angan you have been already that it should at about 15,000 tons a year. If we had an autput of 12,000 tons we could not take it to the railway. We have samply to get our out down in eartirailway. We have sumply to get our road down in earth We have been able to accurate some range than 2 get end of our ornizer. At the greenest time the local read of our ornizer, and the greenest time the local read of the same read of the same

minerals A come was promised on the quanty of the minerals some years ago, and it contains the analyses made by competent people—some appointed by the Covernment and some by cornelive—soft they show that the quality of our less see is better than Glaggow that the public of the contains the contract of the contains the contains the contains the contract of the that the public of the contains the contain that fix quantity of our rises see its cresce than the secondary As for our ceed, we have been range if for 30 years in the locomotives of the Grein and Leibtim Railway Gormany. We find that we can got 10 per cent since steam from our coal than from Welsh or Section, coal, and it is much change. The Arigna Section, coal, and it is much change. Sectish, cool, and it is much change. The Arigina Mining Orrappur was started to precide increasive could for the segretar, and began by realing at 12a. a ten. At that time he price of English out Section could be the section of the segretary and began to some our coal to Deban We think we could put only a found our coal to Deban We think we could put only the section of the sec

My Field 1065. They alole a rafferty, and when a railway was stoken it in not empouring to have that the stones of a stoken with the choice of the beautiful the choice of the barges—The state my all the choice of the barges—The state my all the choice of the barges—The state my alone of the choice of the to chromously moreans our ruling stock. There is a very large demand for our coal from Slige, not only for the immite asylum and the Board of Guardinas, but for moreauthe purposes. I was told by a Member of Parliament, so it must be gree, that they were about

Mr. Field-continued and he wanted to know how many of unardinately, and be wanted to know how many of these 70,000 from we could give them. We have plunly of cutlet for our coal, but if the Government are auxous to supply coal in Dublin at low was it would be very important to leases the freightage by opening the coast.

[Continued

Mr. London. 1096. There was a Provincesal Order suggested by the Rescommen Grand Jury in connection with a line of railway !-- Yes.

of rankway 1—Tes.

1007. Did comathing go wrong with iti—Yes

1007. Did comathing go wrong with iti—Yes

1008. But at the same same the line wont into Res
constant—Yes. The Charman of the company was

the late Lord Kangaten, and he give a personal inflortaking to pay the rates on that little portion of the

line, so the rathway sum on and stopped in the middle

line, so the rathway sum on and stopped in the middle of a logg 1009 At the present Arigna Station!—Yes 1100 And at was subsequently proposed to extend if from the station to the minus 5-Yes 1100 And that was klocked!—Yes, on two or three occasions, as I have accolated, wing to lead apposi-cessions, as I have accolated, owing to lead apposi-

1102 Yes and that there was addresses of time between 250,000 and 2500,000 in the case of construc-tion 250,000 and 2500,000 in the case of constru-ction of the case of the case of the case of constru-ction to be at was engageded that a heart purpose should 1108. The 2500,000 would not reconstruct the value of the case of the 1100. The 2500 of the case of the case of the case of the 1100 of cases, if you had a brand gauge, wages 1100. The could use be shipped to provide all the

would also come from other lines: - nes. 1106 You would not be obliged to provide all the wagons!--Our guaranteed nominal capital is \$500,000 We have spent all that except £2,000, so that word go very far in building segons, and we shall want that memory and more to put on locomotives. Our locmotives have been running now fee 30 years

1107 What is the publication to which you have 1107 what is the precedent to when you never referred as containing the name of the writer. It was a book* I wrete myself on the subject. If you wish I took" I witte myses on the suspect is you was a shall be glad to supply the Committee with a copy-free of charge Chairmen | We shall be very glad if you will kindle

(The Sub-Committee then subjectived to Weefard on the following afternoon.)

FOURTH PUBLIC SITTING . THURSDAY, 12PH SEPTEMBER, 1918

At the CHANGER OF COMMERCE, WEXFORD, at 2 PM -

STREET, PROPERTY

Colonel John Grotton, M P. Mr. Matthew Keating, M.P. Mr William Field, M.P. Mr. P J. Hsanon. Mr. W. A Londsay, M P. Mi PRILIP MACNULTY, Secretors

SIR ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR ment and development, and to vest such places as they may think necessary for this purpose. We thought

Charrents I Gentlemen, may I point out, first of all, has the date of this Sub-Oreanittee in? The House Chartwoon I Genthemer, may I point soil, first oil all, what the duty of thas 8th Obsaution is I'll. House of Commonts, as perhaps you no aware, as August least conduced that a Select Conscribe be approximated for the purpose of considering what steps, if any, it is destrained to be common to the control of the control

year about the was one of the places we cought to with the country of the country port of Westown and to make suggestions whose we shall be glad to by believe our Main Committee early in October. That is really the reason why we are here to be shall now be gird to receive any evi-dence that is offered to us

* "Fighting Industries and Fluencing Emigration in Ireland, 1906"—By J. G. Dugges.

[Continued.

Mr F W. Davis, High Shoulf of Worford, called in., and Exemined very much imminapped by the river being in such a had condition. Barger carrying between 30 and 40 tons get strateful on the shoots, and, as I have stated must be lightened. Elements to Eumeorithy in about

1126 We shall be gled if you can give us some retermination, Mr. Barws, in connection with the object of our impury b—I represent a milling firm that is stanted in Emisseathy, about half a mile course the lown. The river is averable up to the mill. We have sion. The river a new gallet so to the null. We have brapes using grain from the slowmers and heritage say We are very much handserpred using to the shock in the new, between Elements and galleters (This side is a single section of the second section of the second of course, a great destriction to business. I say of course, in great destriction to business. I say gealening of wheat that we respect from Leverpool of course, more the war began that tousile is all stopped We get in 9,000 or 18,000 from of wheat, has we are

must be lightened. Edwarms to Emiscorishy in about three miles, so the cost of designing would not be very much. After the war we will be faced with the peoblem of petting suggest from Wordrod to Enterestry, and if the rever were preparely draiged the difficulty of avergance model be got over. There are other gentle-men here who are will acquisited with the com-line of the rever, and they will be giled to give you seem

Mg A. Dorne, Urban Connection, Essenteenthy called in; and Examined Mr Field-continued Chairman

Mi First—continued

1118. Are we to understand that there is no responsible body to universees to take stops to curry out this dredging—Mix O'Neill, of Entisocity, Mr. Days and o'ther large succlassis and tradeus in the town took stops, as I have stated, about aime years up to importe of the river. 1100: I understand, Mr. Doyle, you have been trading on the Sisney for a number of years !— Yes, our, for the last 35 or 40 years. Trading has been handscapped for last 55 or 49 years. Trailing has been hardicapped for many years seeing to the confidence of the receive. These are stocks in it which interties with mangation, and the sinesty. The train is greatly handicapped at the slassey. The train is greatly handicapped at 1110 What is the flagset both and the slassey. The desire of temperature of the stock of the 1114. There is no Harboux Board in charge of the States 1-No.

1111. And at spring toled. There would be 6 feet 1112 Is there say authority, public or otherwise, who have endeavoured to meet this want of dredging

20 inches of water would have to be lightened at spring

1115 What is your own business !-- I am a barger.

I had a steam beat 1116. Was it satisfactory i-Yes, only for the want of

1117. What is the distance from Wexford to Ennis-corthy?—18 miles by water and 14 by road. Owing to the improvements made in the river by the Ennis-

Chairman 1118 De you know if any estimate has been made for the deepening of the rivert—No. 1119 How much was expended on it at the time 25 was improved by the merchants !-- I think about \$2500

Colonel Lorens A. Bayan, President, Engiscorthy

1120 I suderstand, Octored Bryan, you are President of the Essabouthy Co-operative Scorety 1—Ten, siz. I came here parily to represent the testing people of Enviscority and also to represent the Immers. I may notice that we have before 1.400 and 1,800 shareplace, table care to see that no chrisele to the improvement of the rever was made

1121 To the narigation?-Yes

1181 To the narigation [-166] 1193 Enniscently, we know, is the centre of very considerable traffed—Yes. At a moletage held last might it was estimated that at beast 159,000 barrols of our alone are handled there.

Chairmon 1233 Is that for export?-Most of it is for export Practically the 150,000 barrels month all the con-Prestatelly the 150,000 harvels means all the con-neutral particles, because the agricultural community grow there can lood. The Scorty I exposed in the two between 10,000 tons and 2,000 tons as year-manzers, coal, leedshifts, morehanders, timber and griss. We have gat a societally which was shorter of a man between 10 tons and 10 tons and 10 tons of 1 to 10 tons and 10 tons and 10 tons and 10 tons of 1 tons and 10 tons and 10 tons and 10 tons and 10 tons of 1 tons and 10 tons and 10 tons and 10 tons and 10 tons of 1 tons and 10 tons and 10 tons and 10 tons and 10 tons of 1 tons and 10 tons and 10 tons and 10 tons and 10 tons of 1 tons and 10 tons and 10 tons and 10 tons and 10 tons of 10 tons and 10 tons and 10 tons and 10 tons and 10 tons of 10 tons and 10 tons and 10 tons and 10 tons and 10 tons of 10 tons and 10 tons of 10 tons and 10 tons of 10 tons and 10 tons of 10 tons and 10 tons an

Co-sponative Society, called in ; and Examined. Cherenon-continued

Chereson—outcomed
Steply and Boxon Factory, Led , which has a terrover
of \$800,000 a year, handling earlie, along and page
throughout his country. At they present time we preoccurs amount of their free Entirectivity district bewhere it would get if by water, min have a propose
source of heate or the rive. Until the river is
proporty induped we causaft down a perper serrors between Entirectivity and Wesford. If the river were
draiged to a feeling of 4 de series would accommodate. would, however, preser to see at dreaped to a depth of 7 see at high-water ordinary tide. This would enable s new at ange-wave contrary time. This would enable cross Channel beaut to come up the true. Personally, I would peefer this began adment than the smaller one of dredging the river to a depth of 4 feet. There is another matter of the greatest importance to the constry—the conditation of the river between Enemies and Newtonian; with a Butker landers up waiter will under up waiter will workly at the consideration of your formation. The substitute of the conditation of your formation of the condition of 12 September 1918.] Colonel Bayan

Chairesen-continued

1124. Is not Westerd a great gram-producing county?—Yes. It so a great county to growing barley and sets. The farmers are also in the habot of growing a certain amount of what Western since the weather. has developed its corn-growing to a larger extent than any other county in Ireland.

12th. Has any estimate born node by steptus as no what is walk out in gent 7 level of water in the root of real colors and the root of the

Mr. Kesting

1125 You complain that there is no direct authorit 1138 Yes complete that three it so direct softierly for currying out in proposensative, yea have in year for converge out the improvement yea have in year state they are the country formed it, of course, responsible in the same general way that they are responsible for encything in the county, but I duri year responsative for the same general way that they are responsable for encything in the county, but I duri year in the same proposed in the country in the same proposed in the same proposed in the country in the finite over the rist—That, and want of troops,

My Field I Can you got it—that is another question.

Mr. Kostino. 1129 Colonel Bryan, in your judgment, the inden-tries and inside of this county are retaided by the

[Continued.

tries and trade of this county are recarded by the absence of a special authority for the river i- Yea Colonel Greiton.

1130. Is not there a railway between Wexioni and Remiscorriby 1—Yee, but sailways, especially in Ireland, and I think overywhere else, are always way must better, and letter worked, when they have competition lound in the past that the existence of water transport

My Houses

1131. Is there reason to complain of the railway ser-vice !—There have been many complaints, but when people have only the railway company to handle treffic 1132 is it that the inline, they cannot deal with the traffe f—At the present issue, they cannot. Sume of the other gentlemen present who are more immediately the other grathering present with an entire immediately in feature that the trade can speak on that subject. I have there have been compliants with regard on the subject in the present of the compliants with regard of the compliants of the compli

1135 Can you give us any systems or make any manures, and of despeiching our produce, such as corn and cattle. Unless we have such facilities we cannot

Mr. Leadson

1134. Is it really within the powers of the County Council to control the rever in any way!—I den't know wheat the countrol, but they can do improvements, I think. The County Octood the find series mency, and they were not surcharged.

Mr. P. O'NEEL, J.P., M.C.C., Chairman, Renisco thy Urban Council, called in; and Examined Chairman-continued.

Choirman. 1135 You are Chairman of the Enniscortly Urban Council!—Yes, air. We are deeply intenseted in this scheme for improving the Slarey to Enniscortly. I may say that this is not a new others for which we are now seking. Some 49 years ago, we had up to 45 burges conveying goods from Westerd to Enmacethy, but through one cause or another the number has but through one cause or another the number his destinized some until at present there are prestically not provide the control of the control of the con-trol of the control of the control of the con-sented upon the control of the control of the second proper value transport monitor. The railway second proper value transport monitor. The railway second proper value transport monitors. The railway second proper value transport monitors. The railway second proper value that we can be con-trol of the control of the control of the second property of the control of the con-trol of the railway station previous to the war. Of com-present they are well able to deal with the becomes we cannot really get general inserbandise so only Previous to the war, however, we had the greatest difficulty and had to more heavy expense for want of adequate accommodation as the Emmoorthy Rachway Statute. So much so that instead of being able to say that Businecethy was progressing, it will be the other way unless are get more resulting. After the war we expect that things will be weets than over unless we get these facilities. I would like to point out that Baniscorthy is the outin of one of the largest Sym-growing distincts in Terland. Last right we made

a rough celtimate of the amount of tenffic to and from Enuseorthy in the way of corn, and coals, and manuron and it is every heavy.

1136. You have got the estimates — You, roughly
25 years ago we had 45 happe on the river, carrying
25 tons. The great that is handled in Ensisterthy
assumed to 150,000 harrels.

Mr. Pried 1127. In the year-Lags, As I have used, we see in the centre of time of the last corresponding districts in the first of the last corresponding districts in the last corresponding to the last control of the last cont tion, and we expect to start some new indextrees. The merchants in Emniscorthy have presented to put or suctor boals if we got the river so improved that we could bring up any reasonable tomage. We believe that we will not, however, be shilt to held our own values we pit some sociations and get control of the values. The pit some sociations and get control of the river. I took an active part come years ago in in proving the rower. The County Council advanced some roccey for the purpose, and the Deparlment of Agri-culture also advanced a certain som. We devoke 12 September 1918.] Mr. O'NEU

Mr. Field-continued

allout half a mile, which was a great improvement to the expenses. We did the work for the amount allowed. That superclaims considerably improved one part of the rever, but we had not memory amough to contains also than I have to say to the Commettee except must it is the amount dears of the position of femineously and superclaims. If our to support the rever merga-symbolium should be done to suppore the river mergaaccounting assess to any property to help in every way.

If the river is improved they are prepared to contribute
a very considerable sum to establish motor or other surnees that may be considered destrable in order to

11M. Is there a large trade between Ennisorthy and Definit—Yes, I think I may say that Ennisorthy and is one of the largest goods distributing stations on the Dalth and South Entern Bullway between Ennis-cedy and Dublin,

11.38. In there any direct trading between Banu-cetty and towns in the Midlands of England —Yes, before the war. Food stuffs before the war cases from in the vicinity of Emiscorthy than in any other part of Ireland. They feed up to 50 or 100 cettle

Mr. Puls

1140 You must stall-lead cattle l—Yos. They are dependent to a very large antent upon foreign feeding stall. At the line theory or a couple of basis conting to Version, thouling stalling and the result of the property of the couple of basis conting to Version, thouling stalling to the couple of basis country to the couple of the couple overs from Entire properties of that once they couple the anti-

Using Gratian.

101. Have you say estimate of the cost of removing the sheat or diverging them to a margable depth.—

that we can again when to a margable depth.—

that we can again we depth about a main and a hall, and we did that for 5000. That was the amount allowed for the purpose. You we get about 2110 for the granel land we dock out of the granel land we dock out of the granel. 1142. What would be the cost of doing the remaining work to make the whole course of the river managable into Enuscopiny to Wexford;—Well, I can only give

A goods. te cregged. I think that if we has tween as meen as was allowed us before it would go a long way in soing the work, that is £1.200

1145 We want something precise. Will the 4 feet draiging serm year purpose, or would it be necessary to have a depth of 7 feet —Of course, it would be better to have the dredging done to a depth of 7 feet because there you could be fring coses (Channel boats up. 1144 Which are the traders actives to get—a Troot or a 4-toot depth —7 test, of course, would be better, but even the 4 feet would mean a considerable advantage to Emissorthy. The 7 feet would enable yet to

bring up large boats. 1145. Was anything done by the traders to miss finds to descen the rives !--Yes, some years ago.

Hid. I understand, Mr. Armstrong, than you represent the Whitesele Distributing people in Emmission countly—Ford, and this people of Emissionity generally. I would like to say that Wesford in one of the most through contains in Frobrica, and that Emissionity, which is the contre, sould not be more materially which is the contre, sould not be more materially which is the collected and distribution of all providents of the collected and distribution of all providents for the collected and distribution of all providents of the collected and distribution of all providents of the collected and distribution of all providents of the collected and distribution of all providents. solvated for the collection and distributions on an account of the collection of the state operating to corned. We, in Enumerathy, are all agreed that we are contensly hardscaped through the want of proper water facilities for timeper t. However and to be a fer-wideless amount of trade through Warferd, and those discounts of the collections are not content to the collection of the collec Sections amount of trade through Wextern, and there is no reason if the river were put into a proper condi-tion why that trade should not come back again, and,

Colonel Ordfon-continued

1146. £1,200 is not a very large sum?—The basicre, as I have already stated, made an effect some years

as I have already obteed, medic an effect some years ago to improve the treatment and prediging !—Three prediging is the prediging to the prediging the prediging to the prediging the p

[Continued.

Mr. Hosses

1148 You are a very large trader in Euroscorthy yourself!—Yes. 1149 Whit proportion of your trade is carried on the Sampy!—None. 1190. And if you had the accommodation you are now looking for how much would carry on the river!—I

looking for he'r most send carry on the river!—I would carry 10,000 tens used that he of year istal tennage.—Not half.

1856 Would that spoily so the other tradeer!—No half.

1856 Would that spoily so the other tradeer!—No, half.

1856 the send that spoily so the other tradeer!—No, half.

1856 the send that spoily so the other tradeer!—No, he cannot be send to the send of the limit of the send of th

and an assessment of the period is warfard 1—Ka, in any square, for impreveness of this labeled 1116 Dr year blink the granten of the collection to the management of the collection of the coll

Mr. Lesfoy,

1187. If the State edwarded meany to score suitable
sutherity to keep the State in proper condition would
you suggest inta tick about 10 paid on the growth
to pay does at Warderd, but I have no doubt to
to pay does at Warderd, but I have no doubt that would
agree in Runivectur's pray talls, only we
have the supplied of the pay to the control of the condition of the Mr Field

1159 Is it year spinion this, ewing to the condition the rive, has been allowed to get into that 46 barges have disappeared 5—Yes.

1160. In it on account of the charle that the barges ways prevented from coming up !- Yes, largely to the difficulty of galling modes up.

Mr. Wa Annyrama, representing the Wholesale Distributing Trude in Engineerity, called in ; and Chairmon-continued

Intely necessary to enable us to hold our position and to improve it. I also represent the Enasterthy Gau Company We used to get our coal by lighter, but now we get it by road. This means a difference of 2s on as axinx carriage and extra freight. I have no double whatever that the people of Reniscovity would underso in the way of paying does or talk on goods con-veyed to their town by boat. There are several of the large traders who would gut an more boats if we got proper facilities. At the present moment we are kinds, capped in the work of developing the industries of the district and are seriously interfered with in our dis-imbation to the country districts.

o Control of

Mr. Armstrong.

Chair

Chair rees—continued.

and also performance as to the amount of trade?—Yes, we will do that. We will come together and get the particulars you require.

1166 I would suggest that you would send us m a statement showing us the condition of the tree, and guing are particulars in reference to the two chease put before us of despating the river by 4 feet and 7 feet,

The form we of disspitting the river by 4 levs and 7 feet, Jenseumes 100 require. Jenseum Pastta, representing the Sanisovsky Association for the Development and Improvement of Local Industry, collecting, and Examine,

stall I minimized that yet requirement the financiary sourcestop for the generalized and largery anamous plants and produced and largery anamous plants and the produced and largery anamous yet to shall did not homeous for the power and the produced and the prod

There are, for county, while despiseurs, was appearantly, and consulty and separately, all count entillerants goods are imported. By you claim that if there were belief tension from foodlines that you track would improve 1—Xee, that we should have a chance of establishing industries I do not hank I need to british.

Mr. Field.

1156. Here ye to de city to the courty studied be manufaction for the restriction year has remained by the manufaction of the studies year has remained to the court main into Emmonthy city. No consecuted that he court main into Emmonthy city. No consecuted that he could be compared to the court may be counted to the court may be compared to the court may be counted to the court may be compared to the court may be compared to the court may b

1166 Was that on account of the transpart facilities?

—That was in emiscacone of the high religacy rates
Colonel Loftus Bridss ? All these industries used coal

Obtant Greiten.

1107. (To Fritzen) Year complaint is that the lactities for importing things from other countries are exceedingly good to-lev. I would not say that In a feet plan in our transport beatines for short distinger have not transport beatines for short distinger.

1168. Are we to realest and that year suggestions are for facilities for intercal temporal. For

Mr. Harmen 1100 We are not concerned here with the general industry and development of Iroland spart from transport—Two, but the development of industries depen-

on particular for interest Conseque.

The consequence of the Consequen

IFA Is it your opinion that if the Slaney waterway transferri was improved and developed that it would enable those glays and other antistance of which would enable those glays and other maintains of which loader possent transport conditions to the provide today possent transport conditions to the provided water-way were improved to as to provide their black water-way were improved to as to provide their black Weatfeed, but no the whole country i—Ves, that is no

opinion
1175. You are also of spinion that the through rates have injuriously affected local industry?—Yes,

Mr. Keating

1176 H the Slaney were made navigable and the
port inquived you would have obscure coal and not
material to develop your infostry "...-Yes

Mr. Journ Rvan, Manager, Enniscorthy Cooperative States, called in; and Examined Chairmen—continued.

157 Ton are manager of the Kanasorthe Cooperation Steves, Mr. By Mr. The Mr. The Cooperation Steves, Mr. By Mr. The Mr. The Cooperation Steves, Mr. By Mr. The Mr. The

Chairman—continued, that is much be to the interest of the grather and of our board of the second of

12 September 1918 3

Mr. BYAN.

Chairman-continued. way Company carned take our merchandise, and therefore it is shouldedy necessary that the Rece-strary should be man naugable. Our Society, which an very programme organization. As a consequence of the control with a control wi

1178 There are no estimates rands as to the cost of the necessary improvement!—No. Sir. All our people as Ennisorthy have been keen on the matter, but we as Enuscothy have been keen on the matter, but we did not know your Committee was coming here to-day until 6 o'clock last night cay amin o o cook tast maps:

1179 The local people have not got any estimate as
in what is would cost then to got a T ft. channel?—
Not to my knowledge.

Mr. Fueld 1180 If you were in earnest about it, don't you think they would have taken some steps in that direction?—I agree that we have perhaps been some-

Mr. Kodins

1181 Will you send in a stetument as to the im-povements necessary, and get an estimate from an engineer as to the cost - Yes Mr. Field

1132. If the people of Enniscorthy want these in-provements so hadly they ought to help us by gring reduced.—What length of time shall we have to

1191. I sudowhard, Mr. Stafford, you are Chairman of the Harbour Board "-Yes, unfortunately. You have hed some very setful information from the gentleman nepresenting Emmscorthy dealing with the poor incilities they have at present in regard to the

pior horilline step have at present in regard to the rec. Emission thin, so you are deatheless aware, it one of the best minut bown in the South of Ireland at the Peet of Wastleen. Before the restrey con-taction, between Emission and Martin States of work, in my opinion, have continued to do not the work, in my opinion, have continued to do not the Peri of Wastleen had been amenimized and to four Pert of Westford had been marmitated as et shealth have been. I wencember the post indicated by for forty years. I remember in Misch, 1977—forty-one years ago—I was in luminess here and the depth of welfer as the law western and S. I. remember when I am a support of the law was proposed in the Westfert Deckyrel that a vessel witch his Been reducts at the laws and to be eath which had been robuilt at the time had to be cub-

them as most figure in walk over such shall up so with his does got with his does got with his does got with his does have the post of the state of was use to the bank and we are unsaid to pay it. We then catored into negotiation with a firm in the North of England and had a watton dredger balls. I indeped the bar for about six mention and, mainted by nature, the bar to-day is better than it

1183. The secure you seed it to us within the next to washe the hetter L. We shall do so.

Mr. Field

1184 Is it your continuo, Mr. Ryan, that the Dablin and South Eastern Railway, as of canin at present is utterly unable to cope with the agricultural and industrial development of Emisscothy?—That is marray, even if maltonamied, would cost a great deal more to make it officiall than it would to make our river navigable.

1185 You want the myor as well as the railway !--

1185 What is the truffe that you want to get down to Wenford I-We are interested in the timber base-ness. We are ranning an industry in leather goods

1187. Do you send away many cattle 2-Yee, we soul away a very considerable number of cattle.

1188, Woold water transport help for that?—Yet audoabtedly. Even for eattle alone we would want water transport became it is superior to real for the

Octobel Gretton 1189 You want it for the ceitle as well as for the grain!—Yes. Our footory is doing from 200 to 300 head of cabile a week.

1150 Be you say the rankwy families for cattle are monflacent i—Yes. A lot of our people walk their cattle occurr them send them by train

(The carefuled the evidence in reference to the supersymmet of the Biver Statey, and efficence were next examined in connection with the adverse to im-paye the port of Worlord.)

Mr. J J Scarrence, Mcc., Charrman, Wexford Harbour Board, called us; and Examined. Cheu man-continued

has been in the memory of the oldest man in this steen. We get a depth of something like 17 or 28 it of of outside in the ber at high water. Undertanded, which is should not be a ship which will be a something like 17 or 28 it is of other and the harbout called. "Gullar" where there is something the 5 or 6 it is of water love, and water something the 5 or 6 it is of the same that the same than the same that the same th plenty of water on the bar we had not enough water in the harbour. The Harbour Commissioners, owing pointy of water on the last res has not discope values to their financial points at the time, and want plant they last no texture used to the design, said they last no texture used for the design, said they last not texture used to the design, said the last to had a knotch order which because collection for which the last collection of the la

whether would of more than town 1000 loss; into hear burder, and on a map this the term the chance of burder, and on a map the left hear the chance of burder, the chance of the term of the chance of the form to 24,000. The reasons for the financial chance of the Bornd can many that I will dead in left chance of the Bornd can many that I will dead in left and the the chance of the chance of the chance of the chance of the Bornd can many that I will dead in left and the the chance of the long Warderd traffs, was the each bost tradity, term that the chance of the long Warderd traffs, was the each bost tradity, term that was taken at Viven the Bost match ever by it was taken off when the line was taken over by Monora Powell and Hough. The latter firm disposed

of the boat, and the Committee will understand the course when I state that one of the clauses of the position that the case beat that was trading with the port was taken off by the Government. 1189 Before despening the box, where did your vas-els poin in 1-in the Senik Bay, centuck the kar. We would be very glad if we could get any assistance at all to deepen the peet. We always bulk that it would be a great advantage at least to have the brancage writer the

port, as unce vessels get into the harbour they are ofe. Now there is that shoul there, the Galbay, 1194 Is that shoul getting weese?—Yes, there is 1194 Is this shall getting weeze to ten were as nood deal of eliting.

1106 Where exactly as it is in about half-way between here and the bar.

1130 Base it sheelfully prevent the vessels from coming up—Tays, to the quaye.

1137 You have had a divelgar which gave you 128 it.

1138 You have had a divelgar which gave you 128 it.

1138 To have had a divelgar which gave you 128 it.

LIFY You have had a dredger which gave you IS D: of water, and inside that you have a double tennel, and the result is that although you have a fairly deep har you have a shoal inside that prevents a vessel

ceasing in 1—Yes, that is so 1196 That is a very orthogodizary position. Could not an entrapee be opened in the shoul?—It is a rifle and a quarter long Mr. Fund

1199 You have no famile at your disposal!—No. The Harbour Board are not in a position to improve the port. In fact, we were in such an awful position this at one time we had our tig lying life at the quays for want of money to buy cell until a local morehalt came to the recent, and some of the Commissioners had to put their names to a hill in the Bank for £150 to enable the tag to be worked and to pay the men. I may say that we conomised in every possible way. We have no watchman might or possible way. We have no watchman night or day and we did everything possible to keen down ex-

1200. What was the resour you did not diedge the Gulbar with your section divelage?—For the reason that the bar was exact, but Gulbar is mad. See was not sentiable for that. Before the bar was divelged oven small selections had to be lightened in the bay Small results even a rail of the late of the lightened on the part of the second of the second of the late of the lightened on the late of the lightened on the

Mr. FloM. 1300. It is an extraordinary thing to say that when you have dredged your bar you have a shoul in your harbour!-Well, that is our position. 1302 Could not an entrance be made through the shall to let woods in !--We could do a lot of things if we had the anapay.

of we had the money.

1905. That is true.—It me a desperate thing that the
members of the Beard had to back a bill to pay their
men, and that they had to despend on the kindness of
coal merchanis to run their tag. That is the position
As I have stated, we have concensed in every way
we could, and we dispersed with our woltherness and pulots. Of course, it was easy to dispense with the others when they had nothing to care

1204 Did you prepare any estimate as to the cost of improvement? -- No. Share was no use in proposed of improvement.—No, there was no use in gening into estimates when we had not the whorevishall. I may say, at present large reasels are lying in the bay availing corner, but if the port were opened these vessels would indeed a suchorney inside. Mr. Knoling.

1906 Have you any prospect of gotting back the shipping trade which his disappeared from the port

Mr. Kesting-continued. d this notk you advocate is carried out !- Well, there has been a revival of shipping suther the last are morethe. As regards the boat tracking to Leverpool, I do not think that beat is to be found, as you want special boat for the outlle trade. If you sak me would

[Continued.

opean beat for the outle trude. If you ake no voul, the development of the borthern sent necessary displayed and the object of the necessary displayed and the sent of the object is then in rare in adding you also good the necessary displayed and the sent of the object is the property of the object is the property of the necessary displayed and the necessary displayed to be able to the necessary displayed and necessary displayed and necessary displayed and the necessary displayed to be able to the necessary displayed and necessary di

1208. And you have not enough money to pay the mon!—Things are better for the last three or four receible, because we have increased the rates, which recursa, recursa we have increased the rates, when may be destructed to the port. We have raised the dres on coal and timber beyond the lapid marina, and though that may benefit on financially it may no set on the community. We have made every effort to

set on the community. We have made every effort to pot out of our difficulty 1200 What is the Government authority which deals with ports and harbourst—The Based of Trade 1200 Is there any other authority—My super-coop as a member of the Harbour Beard for twenty ecco, as a member of the Harbour Beard for tenery years, as fast here do their own week. 12th But the Board of Praise is the Government unifacety own the post—Yea. 12th And they execute an unifacety t—I have never seen it. They know executes ranch jurnshelling one car Board. ir Board. 1213. You think we ought to recommend that a grant

be given for the improvement of the port?—Yes
1214. If we recommend to our main Committee to ask Tanhament for a grate, you must be prepared to state what plan you have in mind for the fature de-velopment of the port, and put in a proper statement to use 1—1 will give it to you goo. Chairmon

1215. Perhaps you would send in the statement!-Colonel Gretton.

1216 What source of revenue have you from the port?-The only nource of revenue is what we lovy on inports and experis

1217. Tells and dates!—Yes, and we are soing illegally in what we are legging to-day, and it may be

1218 Are your tolls and does higher than in the neighbouring parts?—In some parts there are no does. In the city of Waterland there are no dues. We have in the city of watering time are no dise. We have reased our towage rates from 6d to 1e 6d, and again to 5s. We raised our dues on coal to 6d, per tou, whereas the limit allowed by the Board of Tendo is 10; but what could be 40 f. We had to do that or cites down the port, as there was no one to assest us 1212. You have been colliged to exceed the tells

Based of Totals—We asked to permission in reper-legal, Wale Lies of yearsh core in —Joshy smill subsequent and small stempers. Up to about its subsequent and small stempers. Up to about its subsequent properties of the very price difficulty and discharging vessels at Wenford, and coverg to the field that it was a thick hardson; yet are impossible to de-tail the control of the control of the control of the range has become more picturity! The feelintee we have fee loading and discharging vessels are very

principles 222 Is it necessary to lighten many of the vessels before they get to the grays?—Not at present, becapes they have not brought large tennage. They only bring

Mr. Syayyord.

Colonel Gretten-continued 1900. What are the fatilities of the quay for das-

changing 1—70 to a naturate or one quay bit dis-changing 1—70 to a 1223, You want beam stames and no forth 1—You We have no exames for handling coal. The yards are 2204. As regards the traffic of the port, according to the return here, the traffic of the port kept up fairly

is the restore force, the ineffic of the peet kept up firstly well and affect in 1911.—Now. There were think that year at begin to demease—New Three were their treations in 1919 which I have great reason to remember, and since them the trade of the peet has contrained to define.

1925. You have been hard left by the war, I see by these figures—New,

237. The trade of the post has decreased rapidly? "Yes In 1916, when the cross-channel service was attherawn, we had 35,000 tens of shipping, and on the true March last up and only 9,700 tens, including Nist March last us and only 9,790 ters, including

Mr. Fish.

1223. Less than halff—Yes
1223. There was a regular survice of steamers between here and Brestol, and another service to Liver-poll—Yes. 1230 Both of these me gone!-Yes Colonel Gretter-

Have you romon to believe that the accress good to resumed if the part was open -Yes Chairman.

1838. Who was running 157-A Liste pool firm. The steamer was requirement by the Government, Colonel Gretton.

Calcool Orthon.

1555. You greated efficiently at the greater moister in the sheal motie the law!—Les We require frank and a restable drudger to get over that Is my openion, if the part had been usuatused for the law dry year and open to larger torange, the Stany result is but the state of woned not no in the state in is to may between wet-ized and Runnicouthy, because the closing of the port laived to kill the traffic on the river.

1354. Why do you think that the mainten

year harbous is entirely a matter the maintenance of year harbous is entirely a matter for the Statel-The coly way I can easieve that is by asking you another question. "Who sits is to do it?"

Aldermon W. H. McGuzze, Mayor of

Chairman 1245. Would you like to give us some evidence I-A do not know that I can add much to what Mr. Station has been The Harbour Board to in a bankaupt condition at present, and the harbour requires exper-

ture on it in the way of deeding Colles, dreiging the bertis, manufatung the quiys, etc. I think it is the first consideration in considers with any scheme to the development of the harboar to here these 1360. Has any application been made to the Board of Trade and in regard to the financial difficulties of the Harbert Board —I do not timik so. I am not a manker of the Harbert Board, except so affice as

member of the Harmont Record, market we did not have a first and the Harmont H

this floord of Trade?

M. Stefond No. Str.

M. Wild No. Str.

M. Will No. Str.

M. Wild No. Str.

M. Will tanity of having the improvements carried out the present time there is a dredger here belonging to the Admiralty at work in the harbour, and it should

d made digitised by the University of Southampton Library Digitisation Unit

Mr. Housen-emtimod. Mr. Hoaces—emifined.

1256. Suppose that questing every pain the case of every largests in the United Kingdon. Here can any-body faulth a deficiance datum on the part of Warden behavior to the part of Warden and the Company of the Company of the Company of the Market Than In what you stake in your evidence—"Company of that the what you stake in your evidence—"Company of that Kend"—This Indoors has advantaged in this said the work for the Company of the Kend"—This Indoors has advantaged in the Said and the commitment of any a hankery scaled by the developed the whole would be the said the sa

maintenance of such a hashour should be State-aided, if the revenue to be derived from it is not sufficient 1257. On what grounds !—It is a matter of open on 1258 What poeming advantage does the State deriv-from the harbour of Waxford !—Well, to surveit that granted to would have be uptraduce some rantious which

the Committee mucht not like, and I content myself the Committee might not like, and I content myself by saying that it is my openion that the part should be trate-asised. I might bears it three. That is my openion. This the position of the Beaut boday. There are twelve or therefore members on it. We are alliesed to bery certain mates, and we have exceeded our lagal powers in leaying them.

1929 Dud you apply to the the Board of Trade !-

1880 I quito apre. When yet propose that State-mentance chrolid by given, the propose that State-mentance chrolid by given, the propose that it is peaked—I have not said to 1281. Did you mean that—It is a gene laterously on a 1281. Did you mean that—It is a great laterously on the Sainteral Rain, who have not expended publicatily, if it was not paid book, and I think it capits to be pull book. We can put also to do so, and eme-puted by the can put also to do so, and emebody coght to do st.

1942. Has the administration of the Port in any
way contributed to its downfull to I should not say so.

1243 How far out does your jurisdiction extend!-

Alsont a mile out. Mr. Field

1244 Ded the opening of Bosslam Harbour affect your port in any way ! . I should say it doi. Wexford, called on; and Examined

1987-9. It is not working—it is working at the air statistics. That is an opportunity that might be awarded of I would cave a bot of experted to see her white she is here. I understand the successful will give a statement regarding the financial protition of the Board. I think it is not the aggestion of the Martoner Touch inhibits on the contract of the Martoner and that the hardoner contracts of the Martoner and that the hardoner contracts of the Martoner and the statement of the statement of the Martoner and the statement of size of the State, nucher those circumstances, so put the Hardson Evolve in each a position that they one ac-tivation to the state of the state of the state of the entangun yeasels at the part, I state that they are state primaries, and I take it would be not below to the state of the state of the state of the state of the I side agree with the guideous from Emiscockly, that it would be well to have the tampear behavior that depends on the state of the state of the state of the depending of the triver is necessary. Suitable materials and the state of the depending of the triver is necessary.

Mr Housen 1250 Along the river banks?--Vest There are one to two at present. That is all I desire to say

1255 Does that shoul Galber interiors with stonners coming here!—Yes. It is sometimes the cause of delay to stonners

19. Seutember 1918 I

Clear suca-continues

1252 Had any steamers to be taken aff on that account !-- It told against the Harbour. It was a con-

1255. Do you commint that the mouse of the down has delpad to curtail trade?—I believe to, but the secretary of the Halberr Board wall be able to give you the amount of the increase in the dure, which are amply enteriors—from 64, to 36, and so on 1264 They were put up to into mining supressa-was that the sides—The ratios were increased not work the rite of making good the loss, but simply to main

1255 You could not go on without meressing them?

1256. We are not even able to pay the National Bank the interest on the overdualt for the last five or six

1207 (to the Maper). Were the cross-shaunel services paying the steamship owners?—The Liverpool route, I understead, was paying. The steamship rottee act of Western were paying.

Colonal Gretten Colored Greifes .

1993. Her any application been made by the Har-born Chammanders to the rily of Weedrak for sensi-tations have been made to the Corporation to take over the maintenance of the quaye and the state-in leading thereby, which has Endour Chammasonars and produced the compensation of the commissionary and 1299. Did the compensation most the commissionary and They have no consected as for, easiery to light the

gants.
1899a. They have lighted the quaye!—Yes
1899 In there may reason why the Disposition
bondl not give some ansatzance temperarity!—That is
masters for argument. The ragenbers of the Coppul-

1268. You have really agreemed the question that I

1368a You have known the part of Wexked for a real nume ware?-Sings 'WO. great namy years 1—Stree VO.

120. What is the present position of the port as compared with that trans 1—Very bad. In 'N year could come in over the bir with a saling resed drawing 115 it, of water at near tide and less against a

ing 115 ft. of water at neap tide and least against a head wind to the quays, but at the present time, with a 500 home-news tag a vessel drawing 105 ft. of water could hardly get to the quays. Since I have been in charge of the tag, Culbar has shouled at three times 1271. Han any effort been made to dredge it?—Yes, we were three or four years, or and off, designing if We designed a changed \$0 ft wide through \$0, but free vessels growning on \$0, it filled up again. At present, in an ordinary spring inde, we have 18 \$0 d water at the but, but gent on the brind you would have a

as the bar, but awing to the shed year would have a chiffently in guitting a vassel dervanty 28 ft up to the carry, caccept by good manage such, and at the quary, ask would find only one or two battle through the decided and the state of the carry of the decided and the carry of the carry would not such that the vas not fitted to design and and graved. We could not get her to dredge sand and gravel We could not get her to dredge the pies, but she came down here afterwards for

1272. What did Wexford do to the Beard of Works?—I den't know, Sir, what we ever done on any

Mr. Hosses-continued State should sountern the harbour of Weederd be-cause you replied that there were uniconcept and un-precedented difficultion, and that in consequence, these was a dam on the State. That is a definite arrow in

Mr. Kostian.

1263 The augmention you made about nithing the dredger which the Admiralty has at present in the harborn is one which the Committee will been in mind

as a very merful anguestion, became you tell us it sould enable you be accomplish the object in view at a small cost !-- You, at a much assaller cost than CECUMES.

1894 Another good point, in my optmon, is that it the harbour were improved and the shoul removed those reside lying cutside the harbour at might confi

—Yes 1305 Would it be necessary to clear the shoal a rule and a quarter long in order to get in the shipe !—I'he ships could come inside the harbour for shelter with.

Mr Feld 1266. Is the corporation directly represented on the Harbon Board 1—Yes, by our member and the Mayor, who is an or often member. 1287 Have those two members been able to impress ha corposation with the necessity of asystem the Harbour Board in the interest of Westerd and the country generally!—The Corporation have agreed to

1256 Haz my application been made to the Depart-ment of Agreenman for their divider on to the Adstrent of Apprendicute for factor theorem on to her ownitally for these disclaper? Mr. P. Horses (secretary of the Harboux Beards), I will answer that The Harboux Commonstreams, seing in complexitions with the County Countil, the overposition, the Saussecorthy Urban and Darket Councils, and, in fact, all the public bodies on the county, whether works are submitted a measural to cons, and it seek, all the pictor combs in the corner, some eighteen months ago, submitted a memorial or the matter to Mr. Burgass, to the Department of Agri-culture, and to Momebus of Parliament, but it is all

Mr. Field 1260. Why do you not keep hammering at the Mi Siefford | We would want a fighting member over these.

Caption L. Bretten, Harbour Master, Wexford, called un , and Examined:

Mr Field-continued When I first went into the tag, we had 51 or Of the Stafford | A fair processings of them were lost alterny the north

Mr. Stafford. 1273 But you know what I said is a fact!-Yes 1274 Do you think, Captain Busher, that if a 200-ft

charge) were dredged through "Sulbay" it would be all right I-It would hold for some time, and the tendo dues enough out of that increased fraffe to mainten steamers to Powell and Hough, they put in a clear-in iterard to Engagerity. They had a little steamer unning between Wexfeed and Enviscotty, and when they sold their bosts they also put that little steamer up for suction, and there was a clause that she could not tun in opposition to the railway. The Dublis 1273. We are only making inquiries !-- I know. The question has been asked why did the Bacon recole sell

(Continued 12 September 1918.1

then boats? I cannot understand the reason, though have thought over the matter a good deal, and it I have account over the matter a good deal, and it introded me a lot. Everybody as searce that they write the greatest carriers in Great Britain. They are carrying stoff from the North of Emgland right Zong to the Emst of England—to London, Postunouth,

pieces 2200 I unions and they continued antil they were adopted by the varie-threy stopped before the wait. They stopped before the wait. They stopped these by beats Before the war they had booke of 200 se 600 toos trading beforeas here and Investoral When the way stricted than beat was communicated by the Government, and they processed they continued by the Government, and they processed to the communication of the processed and they wanted that they wanted to give us one meteod, but they never did so

1277. Bid the company get fairly good-sued cargoes i -I remember when they had to two two boats a

MEG What care or what remedy do you propose for the present state of things "-The dadging of "Gulbur." Everything else that we have to do with

1379. Following that would be the development of the waterway up to Emrisonthy !-- Yes 1290 Did I understand you to say that Emmsonthy was one of the charl feeders of Wexland Herbour's

1291 You have a financial statement to make in connection with the Harbour Board 3—Yes, an At the sed of the financial year to the 51st March last the board owed the National Bank 217,285 like 56, and board oved the National Bank 287,285 186 56, and that in fracenage by 2890 old for subreat each year. The breases has dropped from 55,263 tases in 1921 to 35,253 in the present year. The stratege is the instru-cting years has been —1912, 54,564 tens: 1905, 44,976 tens: 1914, 44,565 tens; 1915, 58,753 tens; 105 26,565 tens: 1917, 19,48 tens

Mr. Hannes 1382 Will you put in the balance-sheets?—Yes 1382a. Will you let us have them from 1911.1—Yes

Thu closed the evidence offered at the sitting it Chairman | Gendinmen, we are very much children to you fee the information you have given as. You have given as a good deal of information in reference to the position of the port, and I gather what you was a some grant to dredge a channel through "Gulbar." Vr. Stafford | We are also anchom to have the

hertha dredged.

bettle dredged.

Choirman, I moderated there are only two large terths here. I would file to know if more accommodation out it is obtained.

If: Stafford, We have sufficient accommodation if

the burths were dredged.

Mr. Linksry.

1331. What was the name of the heat that was com-mandered?—"Westerd Coast" was the bost that was commandered. was communicated. 1382. When whe H taken over by the Government!— 19th August, 1915

1285 Do you remember when there was an export source between Weathrd and Dury 8—Yes 1286. What can beats can 1—About 190 or 150 tone

1995. It has not just come within the last year or two 1-No. Ontrade the har was improved, but inside the sheah not worse, "Galler." has been gradually the shock get worse. "Galber" has been gradually shocking since 1870. The reservoir town sewage also cause into the harbour, and that causes ultring.

Mr. Lindson. 1337. When the Powell, Basen and Rough firm dis-posed of the Wexfeed boot, didn't they substitute a load for her !-They did, but that boot was commun-When representations were made to the

1288 Did the strike that took place some time ago affect the burkeys !—I did 1993 Did it not result in the removal of centain absorrers from this post to another port!—Ne 1200 Did not some people who centred on shipping in this part go to Researe !—Not to my knowledge. Mr. Horsen

Mr. P. Honay, Secretary, Worload Harbon: Board, called in; and Examined

· Chairman.] For what amount of tournage?
Mr. Stafford.] For all the terrage coming to the port I now beg to propose a vote of thanks to the Chairman and Members of the Committee for the patient hearing they have given the representatives of the different bodies who have come before them. We of the Harbour Beard, whose trak is not a pleasant

Colonel Zaffur Bryan, I confially second the voto of thanks due to you for the great patience you have shown in the course of this inspiley. The Mayer | I also desire, on behalf of the Corpora-tion and the people of Worford, to associate myself

form. Chairman | We desire to thank you for the very hard things you have said and for the information you have given as, and to any that we came to make in-quines, and that we have get a good deal of valuable alcomatous which we shall submit to our make

FIFTH PUBLIC SITTING: THURSDAY, 12rm SEPTEMBER, 1918, At ROYAL HOTEL, NEW ROSS, at 6.15 p.m.

Mr. William Field M P. Mr. W. A. Lindsoy, M P.

Mr. Matthew Keatrag, M.P. Mr. P. J. Harmon. Mr. PHILLY MACNULTY, Secretory

Six ARTHUR SHIRLEY BENN, N.P., IN THE CHAIR.

On the 5th of less month the House of Communs appointed a Salect Occanitice for the purpose of con-odering what steps, if any, it is dearnful to take to converg what stops, it any, it is describle to take to desirely and improre the internal facilities for tame-port within the United Kingdom; to secure effective experience and co-ordination; and to cause that such developments and improvements thould be adopted.

Chairman-continued to tuvestigate and report upon facilities for transport

Mr Jones S Houne, J.P., M.C.C., New Ross, collect in ; and Exampled Mr. Lindsty-contrast.

1895. Yen decire to give us some evidence, Mr. Hearts, with regard to trus-post facilities in New Reart—Yes, St. I have to do with the advance communication as well as with the canals. We are right energies for as well as with the canals. We are right energies for as well as with the canals. We are right energies for a state of the canals are restricted as the canals. We have registered to the an introduction of the canals. We have registered to the canals are restricted as the canal of the canal of the canals. We can also the canals with the canals are restricted as the canal of the canals are restricted as the canal of the canals are restricted as the canal of the canals.

1294 The Great Scothern and Western comes through Palice East — Yes, Sir. The rulespy do not two for the comemistic of the public so far as New

Mr House 1995 Have you made any complaint!-Yes, 1995; I think the matter was before the Railway

Mr. Zandsay 1256 Have you reade any complema?-There is no

Chairman 1301. I understand that you are Chairman of the

1392 And you have some systemes to give us?--I 1000 And you have some ornsence by give unit-ingel goods from Doblins by the count, but the service is so irregular that we never knew when we would get our goods. If the Grand Canal Company could our goves in you will not consider they would get a good deal of our traffe, but at present the services are your receivable. This is the structure we have against the Grand Canal Company. The canal is not a sustemation to be the construction of lightened by 10 or 15 or 20 tens on portions of the river at Bagnalstown and Carlow. New Boss to Dublin and retorn to the same day. One My, Plots

1297. How do the trains serve for goods traffic. The sail service for goods to all right either from Waterfeed or by lighter from Waterfeed or by trees, and frees Dublin, also, the train sovice is all right Chairman

1886. How long does the lighter take to come up !

Mr Kenting 222 Account.

1229 Would it be advantage to you if there were recover barges on the canal !—There are some .

1300 Would the despensing of the system generally be a b-metit!—It is really the condition of the hed of the ower in purts that presents difficulty in the very

Mr. P. N. O'GORMAN, J.P., Chaumann, New Ross Urban Council, called on and Examined Mr. Field 1305. In there may arrangements between the canal-

and endway whereby they pool notes, with the result that the caval gets less of the traffic? Mr. Houses I We know there is a sgreenent Mr. M. J. Murphy, J. P., Gralguenssenanch I fit the Mv. M. J. Murphy, J.P., Gralquensmanagh; in the time that that agreement came into force a lot of the coal that same from Bublin to Carlow used to come by water. For the last five or my years there is no coal water. For the sast are or six years there is no co-carried at all by the Caval Company. It is the host bosts that have to carry coal. This hig coal traffit in days gone by some from Dublin. Mr. Field

Mr. gross 1304 By rail or canal 9—Most of it by rail 1306 Yee

Mr. P. G. Thouarson, Carlow, representing the Irish Canal Boat Owners' Association, colled on; and

Chairman 1305. You have already given evidence before us in Dublin I.—Yes, Sir I reads this to state in connection with the transit of out from Poblin that the Carlow line Congany have their pressure alongsate the canal, but their coal comes by train. Inst week they got coal by real, and it had to be carted a mile and a half from such cases could come to Q (1900), a count questi a trip gible come to provide the control of the country of th

than it was originally Mr. Field

106 Has it been designed recently "Searcely any ching has been done for the last filters, years 1200 I think we had a statement from the Secretary of the Grand Casal Company, that they had two divel or tre Green Connect Company that they had two dred-gers and laid out, I think, fil. 300 on dredging on the while system I—That might be at the upper cod. When we went to emphasize in that the traffic from Waterlord on would be emphasize in that the traffic from Waterland y ho could have been predictedly wood out by the count to which the channel has been allowed to still be in the content to which the channel has been allowed to still be questioned. Or Pallings death, I think, with the question of the cannot have question as greatly whom has been considered to the cannot have predicted to the cannot be considered to the content to th

Occanition We Phillips handed in one of the seding held of the Grand Const Company showing that there were three days saffrage

that there were three days saftings. Mr Marphys, Three is an impresented in the service owing to the complaint that we made from the companing three parts of the companing of three need to be precisely to service. It might take a foresight to get suffit The service as fairly good since, the Ometic Occamitee belowed uses the mitter when we sent them a memerial

1300. Mr. Phillips made a poral reparding the diffi-only of getting adiable men to work the basis?—He does on the Energy Written I The super of ordinary bistness before the sur war Ba. a work Yen caunst expect to get good urts at 12s a work. Mr. Lindsey.

Mr. Field 1311 Has it not been raised, Mr. Thompson 1—Yes, but you have a searcity of labour. When you get up your wages all m a hurry you cannot get itsized boot-forn from the incombans ready to take charge of a

Mr. Lindson. 1012 That would hardly account for the people of use district not various with people from auchies unless one got paid better than another 1-fait diffu-rice is only apparent. For metanos, the cased non-cious conjugate the Barrow These gase don't audit-tural the steer, and it is accessivy to get men who do

Mr Field.

1935 I have a letter from a gentleman complaining that there are no regular sailings on the causi, and coating that there used to be three sailings from Dublin weakly He mad to be Exree manner the pools in and by train. This letter comes from Bagnalatown. The writer says that a relate is given by the Balbany Crupacy to the large consignor—Bagnalatown has

been affected in that way, and also Carlow, Atay, Portaclington, Tullimore, and one or two more towes were affected. The armagement was whatever the were introduced. The armingument was withhout not average fatings of the Canal Outspacy for a certain number of years had been that the Harlway Outspacy made up any electings on this average, or a propor-bur, say nine-tenths, of ri. There was thesecore to recensing for the count to keep up their module. at Bagnalstown comes by rail, though the mill is on

ne catal.

Mr. Medd] In the letter I have already quoted from the writer states that the Grand Canal Company was saled to get up a galvanised store, but relined, with the result that the traders had been obliged to with the result that the traders had been obliged to itunishe their itselfs to the railing. Mr. Murphy I That is true, and Mr. Brown told me he would prefer the canal if he got a proper service. Mr. Field I is that not a clear case of reliaing traffic

and diverting it to the railway!

Wifness] It is a case of returing facilities. Mr. Zinboy. 1314 The official of the Grand Cornal Company stated that they were only by-tradem with Waterford

states that tany were only by-tradens with Waterford. They said they could not precise accommodation there, Mr. Thompace I—They would get it if they abled for it. 1255. They would only provide accommodation for theiriselves, and not for other by-tradens—My point in that the traffic that great from Waterford to California. Mr. Field.

1316. Have you snything to do with the manage-izent of the canal i—So.

1317. Have you made any representation to the Mr. John S. Hears, J.P.) The traders of New Ross do not use the canal because the service is too slow. Mr. Lindsay.

1818 What is the state of the river from St. Mullima to Waterfred 1-It is all tight except at St. Mullins 151B. What is the jurned etter of the New Ross Harloan Wesser of the Communication of the Communicati

Mr. Lindsau

1220 Le the river tiefal at St. Mullimst—Yes 1321 Would it not be reasonable to get the authority of the New Ross Harbour Board extended to the lock of the New Ross marrow.

July 1841 I don't know that it would my them.

Mr. Lindawy Ton counce expect the Grand Canal
Company to go cuitede their jurisdiction and do dredge
Tribleral In the original schime there we as fock
armanged, but it was obtained for some reason on

the old Bessew savigation.

My Field [Could not the New Ross people help the Government in the carrying out of the mecessary in-

processed in the river?

We Bose has no pariediation at the easy at 81 Mallies.

By Green's 184 Mallies, the easy at 81 Mallies, the easy at 81 Mallies, the post fewerful no to what through the done in order to effect the necessary improvements?

Many Maryla We have provided to such in to the Many Maryla with the provided to such in to the test of the such as the

Without The Barrow system, which must from Athe to St. Mollins, represents only a quintion of £25 000 altogether. Aughody who had £25,000 could get the whole union. I think the whole thing could be pot for £25,000. If no it ought to be taken over by the Government and made a proper public highway.

12 September 1918.] Mr. Thompson [Continued.

Nr. Field. 1322 You are in favour, My Thompson, of the

Mr. Embey

1303. Do you mean, Mr. Thompson, that it should be tail free.—No. The difficulty with the cased and the Barrow is that that they get, particularly in the canal, a bag means from rectal, and that is a precise-

1324 Where does that contal come from !- The nale of unfer and the letting of property.

1385 The Grand Company is not a very large dividend-paying concern?—About 5g per cent. are in the control of the control of

at the names you want see that the symmetry carried about helf the traffic. Mr. J. S. Henne, J.P.] I think the Directors of the Great Southern and Western Railway and of the Grand

Mr. Lindsay 2MS Will you give us the names, Mr Hearn?—Mr.

Company and Director of the turent common western Resilvary. I think there are some others too 1338 De you know, Mr Thompson, if any siteshave been sented by the Grand Canal Company to by-tundess to put up warehouses!—I campot sorver that

quarters 350 Mr. Phillips stated to us that he would reme no objection to by-traders potting up warehouses on lang feases and hiring out portions of them to obtain people also tasting on the onail 1-d cannot say any ng about that fiz. Murphy] Nebody ever applied for a site. We

Mr. Post

1330 Did you get it, Mr Murphy !-- No. Mr. Lindson ! They say it is not their business to provide steens.
(Cheirmon.) They say they are quite willing to let Cheirmon.) They say they are quite willing to let are advantable rates and on long lesses. The same at presentable rates and on long lesses. Whether, I there was nove any clusps made for goods. Whether, I there was no consider the condity. They charge you sow even when you have countly. They charge you sow even when you have countly. They was for laying goods on. It is only a small matter and no werth document, but it is exhalted into the pranciple that they was no charge for the wharfage. There was meet any though units for other goods of the other meet any though units for other goods of the other meet any though units for other goods of the other meet any though units for other goods of the meet any though units for other goods of the meet any though units for other goods of the conditions.

LXXI Is that charge for things delivered namediately or stacked 8—If you are making delivery to their boats they don't charge you. If it is a hy-trader's

boat they chirje wharfage.

Mr. Murphy.) If you put the goods directly into the company's boats they would not charge wharfage, but if you get in out so may wear not charge wharings, but if you get in out so quay that they would Wideas! They charge us un over case in Graiges if it is not put on the bank.

Without I've bank of the charge in Graiges if it is not put on the bank.

Mr Lindson 1500. If it was not indefinitely, would you not get the right of user and could you not do it for ever? The the right of user and could you not do it for ever? The property of the results of the results of the re-ting of the right of the right of the right force was any right if was established four age, Sources the charge was prover made to four age, Sources the charge was prover made to the right force was any right if was established four age, Sources the charge was prover made only an extend the right of the right of the right of the right of the last of the right of the right of the right of the right of the last of the right of the right of the right of the right of the last of the right of 1884. Do they give you any assistance, Mr. Thampson, in the loading to unloading 1-No, nover

Mr. Kenning I I would like to draw attention to

Mr. Acatasy I I weems take or many security to another mattice—the card system between here and the North towards Relikenty. I believe the New Ross Haibear Commessioners control is as far as Institute, a distance of seem or right railes, and from that

statement
Mr. Murphy? It would be a giont adventure to
Thomsetown and to the city of Kilkenny if this improvement could be carried out. I am not problemly Incomment could be carried out. I have no probenity interested in at, but for the good of the country I would like to see it done. You will find as much interesting. on the subject in the Canal Commission Report is a

Mr. Horness] You have nothing to add to that

1356 What do you khink sught to be done?—I think a puoper canal rught be considerated. 1336. To consider the News and the Barrow ?—You There is an eshapate in the Grani Commission Report for the cost of large. It will be a great benefit to Kilkenny City and Thomaston. Mr. Housen

L537 For think in the present condition of the carrying trade it would be of advantage to be able to carrying trace is wome to or sevening, in or size, take goods by the cased?—You.

1338 What kind of a trade is there between Thomas form and New Roat—There is a big mill in Thomson, town the Roat—There is a big mill in Thomson, town, soft the causal passes by the door, and they have to care their ranks from the rathway. There is another still owned by Mr. Moss, where tutth has also be certical. The east from the Charlesome Collisions.

Mr. Lindsoy 1339. How far is at from Castlecomer to Kilkenny?

About orght railes.
Mr. Housen] R is over 12 miles. Mr Lindsey 1340 Would you suggest that this canal would pay?

I think it should.

1841 I don't think the supportors are optimistic about it?—To a will have an increased traffic in coal now that it comes into Killeany. 1345 It you take the estimate in the Conal Commis-sioners' Report and multiply it by two, it would take considerable traffic to make a return!—I have no per send interest in the matter. Mr. Ness might give

small miscent in the matter Mr. Moss might gave eithness before you mill in Thomastown 1—76, and another at Homastheading that Residence of the matter at a stated are about to be preceded for the transfer of an attendant of the matter are made outside the matter at th

Chairman

1344 They have not got rid-No.

Mr House 1245 Is not there a practical deficulty at Pertarling-ion I—The canal is a considerable distance from the railway station I—No; it is not more than a hundred

Mr Lindsay. 1546 The connection here does not seem to be much used between the nullway and the river 1—No.

Mr. J. G. Henra, Member of the New Ross. Urban District Council I would like the Committee to take

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Mr. THOMPSON

My Lindsey continued. parie of one remark made by Mr. Murphy. He stated that the caral service was very madequate until they made a complaint to some Control Committee, and, that all count enterior was referred Generative, and individual thick type was sail street in the way the state that is the said that the sail that the sail

Mr. Landsey-continued Government have gnaranteed the canals in the same way as they have guaranteed the railways during the war. If they tell them to improve the service the State pays.

Mr. J. G. Henral, Sceing that the complaint made
by Mr. Marphy to the Conicol Committee was so effective it would be advisable to have a permanent body.

in existence of that character

Mr. Liminsy | Possibly at the cost of the taxpayer.

Mr. J. G. Hoore. | No matter what recommendations you make, if traders are financed, is not the only renedy some such authority as I have suggested? censery some some authority as I have suggested?

Charman? I theak you, gentlemen, for the informa-tion yes have given us. We will take due note of all we have besid, and reject to our Committee when it (The Sitting they concluded)

SIXTH PUBLIC SITTING: FRIDAY, 1378 SEPTEMBER, 1918. At the Town Hall, Waterrose, at 11 am.

VENNERS PRESENT : Mr Matthew Reating, M.P.

Colonel Greaten, M.P. Mr. William Field, M P Mr W. A. Lindsay, M.P.

Mt. P J Harnen.

Sir ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR

On the 5th of last month the House of Commons sourcing waso steps, is any, it is desirable to take to decelop and improve the insteam! Indiffuse for trans-port within the United Kingkon; to score effective appreciates and co-ordination; and to ensure that such developments and improvements should be adequate to investigate and report upon tacilluse for transport offered by the ports and catalo of Technol to make aggregators for their equipment of consider accessory to the construct equipment of consider accessory to the management of the consideration of the consid by the canals and avers connected with Waterford

and milable to meet the national requirements, and to make recommendations. That Bulest Committee appointed a Sab-Committee, of which we are members,

M. H. J. France, J.P., representing the Waterford Harbour Communicorus, called in ; and Rearriand Mr. Lindson 1361 How is it that the Cloumel people got sepre-

Chairman 1347. You represent the Waterfield Harbour Commissions I.—You. This is an Admirably Chart of the irrer. You may find it useful. Under our Act we have so Churman, but I am always put into the chair when I am present at the meetings of the Harbour Bosel. nours 1548 What is the precise title of the body?—The Waterford Harbour Commissioners The Act describes as as Commissioners for improving the poet and harbour of Waterford

and inow is it must the Commel people get segme-sentation on your board—In those days there was a very considerable waterboars traffic between Water-ford and Chunnel, and I suppose it was felt that ser-representations should be given to the traders of terrist.

1332. One would rather assume that the jurisdiction
culd go as far as Classical.—No, it does not.
1365. Bid it over go to Classical.—I believe the story is that it was owing to the influence of the Member of Parliament for Cloured for the time being Mecker of Pathament for Charmel for the time being that tippeassething ass gene to General on the Har-lour Band. He opposed the Art males such regis-sistation was given such as the such as the pro-sentation was given sended on the Workerhell Hobburg Band. There need to be a large number of harper in the old days worked maller than the harest schape. There are three colorations are the proposed of the property of the property of the property of the pro-teed of the property of the property of the pro-teed of the property of the property of the pro-teed of the protection of the protection of the pro-teed of the protection of the protection of the protection of the pro-teed of the protection of the protection of the protection of the pro-teed of the protection of the protection of the protection of the pro-teed of the protection of the protection of the protection of the pro-teed of the protection of the protection of the protection of the protection of the pro-teed of the protection of the protection of the protection of the protection of the pro-teed of the protection of the protection of the

1340 Am the Commissioners nominated !- There 1098 Are the Commissioners nominated by Thomes N members on the beard, of which M are cheered as the Charlest of Commissioners and 7 by the Waderland Orgonation, and 5 by the Borbagh of Cleronic Day and Act dates from 1816. That Act was done amy with by the Act of 1846.

Chairman

Mr. Hotnes 1360 The Act of 1816 was repealed 5-Wes, by the Act of 1846 I don't suppose you want me to go into Act of 1846 I don't suppose you want me to go into the history of the constitution of the Harbour Beard The jurisdiction of the Commissioners extends from three miles outside the land limits to a place called Granagh, about two and a-half or three miles above the bridge.

1554 What is the depth of water up to Waterford at the present time b-On the outer bur it is 15 to 16 feet low water, ordinary princip ide. Then there is another bur at a place called Obech Point, and that is the name depth, say 15 feet. There is also the

18 September 1918) Mr. FORDE, J.P.

Ohmers continued Queen's Channel. The depth of that is about 14 feet The Queen's Channel was cut about 50 years ago

The Queen's Charges was cut about 50 years ago when we get up to the city we have a depth in the river feen 16 feet in some betten. So beet in other beeths, and 24 feet 5 in; and 25 feet in one of the bartles. The system of discharging in Waterfeet is by measure of high, such stages attached to the say wait. We have freach that a very useful method of discharg-ing much vasies.

Mr Houses 1355 Is it halks or postoose I-We call them halks

1806 Is it hulls or possones—we can them muss it is 90 feet to the cuter edge of the hulls or penform 8ome years ago we berrowed money and country-tied a length of pity short 350 ft. long. It was built of fetto-oxiderio, and it is a very substantial situetime. We feel that it would be a great improvement if this receivables would be carried on and deep the sure

1356 What depth of water have you get alongwide so jetty f-15 feet at low water. If this jetty could be eiterfield up on both sides of the trusting postures, that have been built at useds, as I have said, as I have said, as termandous bulgs to the trade of the district. But are greatly down, from the content and Corticle and the property of the built-diselexaged at the built by hard labour, not got to be diselexaged at the built by hard labour, and the built-side of the property of the property of the property of the built of the property of the property of the property of the labour of the handling of built-was all the most in-

more appears.

1267 In there any suggestion that if that joby was continued that you would have radway communionoutdon to the gamp if they were askerold at Langual, would be true the explany special the bridge up to the new of the old Brangarra station, where I believe, and one to the old Brangarra station, where I believe, and one to the other system. These are not allowed rathetics and of Water food—the Great Switzbern and Dahlar and South Restorn Rathety (Dahla Langua to the Control of the Control of the Control food) from the Restorn Rathety (Dahla Langua to God) from, the Restorn Rathety of the Danguata. stable read of Westerfold for matches reads, by the other side on how sometime down to the Raure-and from New Rest on to St. Hulling when the joins with the Ground count, but the Westerfold as a distribute of the Ground proper workers. If the trade is developed in the same state of the stable of developed in the natural coulds be embedded to the watch when the salarsh coulds be the special costs. Live with the salarsh could be presented to the other watch when the salarsh could be presented to the salarsh to be such as the salarsh could be such as the salarsh could be salarsh to the salarsh could be such as the salarsh to show that the salarsh could be salarsh to the salarsh to show that the salarsh to the salarsh to the salarsh to the salarsh that the salarsh to the salarsh to the salarsh to the salarsh that the salarsh to the salarsh to the salarsh to the salarsh that the salarsh to the salarsh to the salarsh to the salarsh that the salarsh to the salarsh to the salarsh to the salarsh that the salarsh to the salarsh to the salarsh to the salarsh that the sal obtaining tree before the was as 400 or los a con-dalivered. There is another tent of the river where the excession of the jettle would be a great advantage and that is above the bridge on the right-hand side So he maned, as even me terest Sounders and brosses: Railway Company are not able to provide wagers in sufficient numbers to discharge the voscila quickly. sufficient numbers to districtly the results quanty and it will be more important in the factor to have suick discharges of steamers than even in the past. We have had vessely carrying nearly 6 500 four dis-We have had weeks carrying sensity \$500 four dis-charged here. They were of the modern type. We had steamers up to 400 first lever. Drodwing thould be done at Smelting Henne Point, near Cheek Point 1385. You have told us that the decreed draught, that you have got at low water for discharging is

Chairman-contemped

16 feet?—Where is a borth with 22 feet of water and another with 25 feet. The despening of the berths at Waterford could be done by dwedging. There is analyse position of the liver down below when the

go, and he estimated for a winth or occurred and to longth of about \$,400 feet to gree a depth of water of 2 feet. Twenty one feet would be all right in these

oragus) estimate was \$00,000.

1369 Was not returned unde as to the quantity of sinff that would have to be removed?-No

Mr. Honore

250 What excelly was the estimate for at the true-1-70 make a certury 500 feet wris, 4,400 bet sure-1-70 make a certury 500 feet wris, 4,400 bet sure-1-70 make a certury 500 feet wris, 4,400 bet sure prepared whether the product of the sure property of the product of the sure property of the product of th

to about the maximum 1361. That would be spring tels?—Yas On near it would be 3 to 9 feet. The amount of spell in this proposed cutting in the outer her is 1,120,000 called

1368 That is more? - Yes, Check Point Bas is allowed deposits. There is boulder also at Plant is There is boulder clay at Dancers allural, deposits. There is besider clay at Dissen-ine. I would like now to refer to the possibility, at the I would like now to refer to the possibility, at Waterford becoming a Tanasullantis staken. If the 15th, it would open the possibility of Waterford becom-ery a transmissant solidow. Of corney, claims are the control of the control of the control of the three control of the control of the control of the three control of the control of the control of the three control of the control of the control of the three control of the control of the control of the three control of the control of the control of the control of the three control of the control of the control of the control of the three control of the control of the control of the control of the three control of the control of the control of the control of the three control of the control of the control of the control of the three control of the three control of the control of

Louden and other parts of England.

1355 That sould mean a mood, derree channels—
I suppose it would; but if it was enundered that
I suppose it would; but if it was enundered that
Waterfood was the best result and the property
would be a compositively small matter.

1353. We have it on the minute of evidence that
you make that suggestion i—Tutans of evidence that

1264. What was the cost of the fetty the Commis-sioners constructed 4...About 281999.
1355. And it is 260 intel tong 4...Yes.
1365. That is about 250 per bost, roughly 4...It think it is exceeding ion. However, we will stake it at 250 yes about 250 cm arteriors of 1,000 feet would con-trol 150 cm. 1

you need Economy—Lee
1266 Would it be a great advantage to extend the
process setty 1,980 (see f=1 think it would. The
matter will have to be fored, because the condition of
the indike as such that a considerable sum will be
required to long them in coder. We have not been
the set about few some limits but are the ner is conshie to do that for some time, but once the ear is our some to up that you seem than, that once his war is sent as one will have to fore a certain securit of expense in commedice with those inche. Our expenses in commedicate with the joily are extitled; in foreur of the joily are expenses the hallow matching with the joily are centrely in foreur of the joily are opening the hallow matching the hallow.

1369 The

My Forms ap

Mr. Housen-continued 1309. The port would be very considerably improved by the extention of the jetty quite apart from the designing you suggest — Undoubtedly.

1370. What is the attitude of the people here to-wards the improving of the styon! They are all in

1371 That is to say by expressing sympathy 1—Yes 1372 Would a project involving a financial outlay most with a response 1—It is nather difficult to expecwants inforduals to contribute mency to a public

1375 If the harbour is a paying proposition, would not the public-spirited people of Waterford state-I don't knew of any case where private individuals have provided out of their private resources exemp for the interestruct of upkeep of a harbour, except in

1374 There as a Harbour Loan new!-You total lean is about \$19,600.

1375, Borrowed from whom?—Borrowed from the milit, and £9,000 from the Clyde Shipping Company. They advanced us £9,000 towards the cost of this jetty We pay them interest on it.

1375. The point is that the spirit of self-help could to exter more into the spirit of private enterprises.

I spice, I think it ought

1377 The whole trend of the representations made to as since we commence our work as here for the Government, or the inxpayer, or somethody represented by that expression "the Government," should or the Coventment, or this inspiracy, or sensodor pegar-sented by that aggression. The Coventments, "should be considered by the control of the control of the other mets of the world the general pracagle is that in an enterpoise can pay it engight to be supported by the pathic spirit of the foundity. Why I not you that the pathic spirit of the foundity. Why I not you that the pathic spirit of the foundity. Why I not you that supplies of Whiterious error propagate to hatch that own enterprises—4-41 is really all a question of the interests pro can offer them to get a farther foun. I have

you can offer them to get a farther total. I have already told you that the revenue of the Harbour Com-ressource is animally derived from dum on salepton alrea. There are no cargo rates how. Owing to the falling off in the receive due to the war, it became maning on in the revenue one so the war, it became necessary to consider a recommendation made to the Board to seek powers to impose dues on categors. It is conclaining to any that Waterfeed has been, and it still.

1578 Do you think that the combination of that section of the section of the Sair between Carnok and Circural would tend to a large measure of improvement in the economic evaluation of the South of Related !—I do

of country—Yes.

1530 Can you make any suggestion from the WaterSool point of view of improving transport with Carriel's

-You would want by pur soon, the control of the country

-You would want by pur soon of the country

-You would want by pur soon of the country

-You would be compared to know that this harge

we called "The Polither Hatthery

-You called "The Polither Hatt

Mr. Field.) I am ours it carried more whicky then

13th Tell us comothing about the Suir Navigation Company b- There is the River Suir Navigation Com-

1362. So that the people of Waterford would be in cone. co cont the people or waterand would be im-yrapethy with any scheme that involved the improve-nent of the Barrow end the Sauri-Yes. Obviously Waterfood is really the only peet in that dustrict that kepe will happen after the war. Owing to the number of vessels sunk, our cross-Charmel service has been ext

Mr. Loudson. 1883. You cannot tell us of there is any definite authority over the river between Commel and Correct?

1384. Supposing a grant were given for the improvment of the river, and that they were not an adequate authority, would you be prepared to assume respon-bility for the river as Harbour Commissioners 1—Yes

1385. It certainly would strengthen our hand, if we did recommend say guant, if we could say that the Waterferd Hardwoor Authority were willing to take ever the deticn?—I don't see any objection.

pose, and also the accommodation that we were able poss, man mast like incommonators taken we with all in give, in my view, was reasonably astisfactory for the chose of traffic extering the part.

1388 Hay I not you, as a member of the Harbour Bourd, do you compain the absence of a proposa quay

that you have revenue enough to carry on the pirt satisfactority i-- If them had been no war, we believe we would have accumulated funds to have gone on

3389. How much were you able to realise out of the abip duts !--Our revenue used to be \$13,000, \$13,000, and £14,000

ond £14,000 1339. And still you owe £19,6001—Yes 1389. And you did no dreiging down the river and you have no crance—As to the question of example

there was really no necessity for create, or, staker, there was not much as on having them, because age to a few years ago we had he weeden bridge. 2020. There are no shoden that or outy 1—No. 2020. In three any published the control of the best constructed to the quary, but it was exposed at the time. The exponents off in the short 1246. Sectionard reasons 4—and the state 1246. Sectionard reasons 4—and the other 1246. They could not see the fills on the other side! That objects has knowledge present,

1396 Are you ewere that in the majority of har ours—in fact, in all harbours in Great Britain and

CORRESTOR MAN, IN SECTION AS A SHARE MANNEY TREBURGH AND THE STREET AND A SHEET AND A SHEE should be no dues on the articles if we could do with

out them?

1388 I counted agree with reg, bearing I cannot agree that forces parametering good should be agree that forces parametering good should be upon the cannot agree with the stittede taken up by your Commissioners on the matter, bearing regard to the foot that they over \$12.850, here done or drighting has to be crosses, supported mily no quay's \$1389 Arri you got not such that the counter of the coun

and the second of the second o 1400 Is it your opinion that if these improvements

1604 You said early in your oridance that there was a very large water-borne traffic between Water-born traffic between Water-born traffic between Water-born traffic water water that it unfair if I saked you templain the reasons that is has disappeared for Well.

as far as the water-borne truffic is concurred, therewere difficulties in the navigation of the river, and the

shouls presented at I think if the river could be canalised from Carnek to Coopeal, and given a longer stretch for river-bonns traffic, it would be good. These

large number of them on the rarer.

1495 Would you suggest that it was due to a special,
economic policy on the part of the State that that
trade was interreced with m say way 3—No.

1497 It appears to me that the Committee englist to
have this from a responsible person in Waterbrid,

whence term owing to selton by the State, the trade has very largely dimensibed, and this, further, that would be an argument for the State restoring the confidence that enabled before "That opens up a very walk exhibit 1490 Tau Committee will not be able to obtain any advantage for Workerfield, simply because we want to a superior that the second probability was made to be a superior to the superior term of the superior terms of the su must have a case that would appeal to Parliament, and I just must to see what that come is in the minds of the responsible mee here as Waterford. The argu-ment you advance is that it would be to the merco-of the State to spend a very considerable sum of money in order to develop Waterford and the South of 1400 I don't want to go into the financial question that has been touched on, but, undoubtedly, on the other side of the water, there is a very green objection

Mr. Kostino

1410 You mentioned the subject of coel. You know that there is plicity of coal in the coalfield in Lemster? -Yes

1411. Would you make any suggestion for improving
the facilities for getting the coal into Waterfeel?

They are making a railway conscelled with the Castle

Colonel Gretten 1413 In regard to hendling traffic in the part, in there sufficient labour "-Yes. There will be sufficient labour when the men who recruited for the Army Before the way stayted there was asfficient

Mr. G. A. Watt, Agent, Clyde Shipping Company, and Months of Harbour Board, Waterfood, called in :

Chairman 1463 Before the war, was the business of your company increasing or decreasing?—I think it was in-It has been interfered with by the war !-Yes, senously, coung to the loss of ships chiefly.

1604 Is it possible that after the war that as many ships will be put on as before?—Not at exce, but we

ships wall be put on the beautiful by the bope so after a time.

1425 What is your business pringspally to We make talls a regular cose channel service with Liverpool, Glasgow, Bristol, Loudon, Plymooth, Southampton, and other ports. Waterford is a very important cross-

thermal centro

1425; What are your main experts from Waterford!

-days stock and a considerable expert of becom, batter, ogg, nasparies, and coadmend milk 140 Frodraed in the votinity of Waterford?—Early; but a very large propertion of the leads of Waterford is a natural port sowing a very large interior rade. Waterford is a natural port sowing a very large unterior neas, in which three are a great many important towas, such as Linserick. are a great many important towns, such as Linserick. Dispersery, Cloumel, Dangarvan, and so on We have

Colonel Grettes-continued. 1413. Had you any labour difficulties in Waterbooks Company and some other firms, and there was a con-1814 Here the disputes been sectional or have the spread to the white trade—Sectional. In regard to the work as done done at the port we can yet doubtdry handle grain carpes here very expeditionally—between 30 and 100 term on here.

1415. That is at one point?—Yes. In regard to the collines, they can be descharged very promptly, min the cross-shannel vessels have to discharge within whatever time is allowed in order to fill up a corw and go on the return voyage. About the decharge of vessels with coal, there has been a good deal of trouble on account of the want of railway wagons. The Great Southern and Western Resistary Company have men domathis upon them all over their system, and un-doctated Waterford had been on many occasions left

1416 Was that the case before the war !- Yes, then 1417 Dod that transfer much traffic to the ownals !-

I cannot say that it did. - 1418 So far as you know it did not increase oving to the deficulty that the Radiwsy Company at times had in dealing with the coal?—I will tell you what it has done. It has left an effect upon the minds of too has dense. It has left an effect upon the minds of like owners of these certuing steames that they do not like Waterford as a port, and they sait for higher freight owing to the dolly. There is a difficulty in having no place where the coal can be duringed, and it is neces-

1419 Would you tall us if you consider that there is sufficient warehouse accommodation for the cases

1420 Have you got may coal hulk?—No, we have not. There is a small coal jesty owned by the Great Southern and Western Railway Company at the other side of the inver, but there is no recen on it for pulting a cargo of coal. 1421 And you have no hulk fitted up for coal?-No.

a very large distributing trade, and we have amountly good inclines for distributing owing to the number of callengs and the tree views.

2438 Have very good facilities for the shipment of 2438 Have very good facilities for the shipment of that tried. We good facilities particularly multiple for that tried. We give well up to the average in the handling consectants cargoes.

2439 Have you pleatly of tugs available brief—No, there are some in the harbour at present as all except the nellway larg, which is a very small thing for briefly the nellway larg, which is a very small thing for briefly books.

What is your main import by to 1—1; is a very diversited carpe. We bring as normal times American boson, 980%, floor, 1900, and, I rengish my a miscollation of the carpe for Diversity of the part of the carpe from Diversity flatters.

Mr Horse 1431. Larger in termage or value !-- I can only speak for ternage 1432. Do you deliver it to the canal heats!—Not a Mr. Warn

1635 Do the canel boots be alongstide!—The tendic we have as usually not referent to justify such an arrangement. The canal teadle is not of such sufficient

surregioned The same lands at not of such sufficient such are to be lands on the open. 354 Too deed's separate the tolls of lands 1-No, and the story suggested the tolls of lands 1-No, and the superator is to be superator in the superator is 155 Too lane had considerable experience of subp-page 1-No. 100 to the superator is not superator in the 155 A to delaying man, do you thank the poet of Varietiest applied of paster development 1-do 4.358 knowing considerable outling 1-No. 355 No. 356 No. 356

nalocal grounds?-I do
1649 Have you given say thought to the develop most of internal materways in conjunction with the port!—Nee specially, only incidentally

144. You see possibilities in that direction!—I do
I know that our trade with Control by water has been
haspered for want of incilities, due to fooding and

haspend 38 Wall to account of the property of

the trans goes traces as present.
1644 Can the treate be traceased with proper Sectilities at this port!—If the port traffic were increased by prestic fundation wheel have a refex action on all the towns about.
1655 Would that reflex action to underlined with by the redways? Of course the realways are competing

the administration of edisping at many ports in this longion besides Waterford, you think this port is capable of omaderable development if the necessary erpenditure could be provided?—I do

1647. Are your boats tall going out 1—In the Liver-jood tands we ove full going out because live attock compy a great deal of space. In genomic things we are not so deary gring out.

1649. If the live woods was subtracted from your exports, what position would you be in?—We would not

1409 To would have be go away partially empty?

"Unless something slie developed in its place
1432 Are yes of common that if the money
that is arguested were last out here on the port of

that is supposed were look out here on the part of Waterford that the expressions were she is partial flexes what might be called clue lampran as well as the local post of vere 1–78; I of Son, do, as in transies sten, for 1565. Would you be presented out the traffic you keep would come 1–70, because it would not be running-tive as a business speculation for Waterford to do it 1507. You think as an Imperial measuring the business of tasks and agreement to the contribution of many and the companies of the contribution of the con-tent as the contribution of the con-1653. Pasticularly if the canalisation of the river was properly carried out, so as to give access to the interior system !-! don't know that that would make

touch difference. Mr. Kenting

1454 As a business proposition you suggest you would not recommend at Would you be proposed to any that if extra foothties were given to Waterlond, such as a suggested, that it would not encourage the establishment of new unfinities about this locality?-1 believe it would 1455. How would that square with your statement that it would not be a business proposition!—I take

that it would we be a somest proposition !--! take it you are referring to the despening of the channel. That is a very expensive matter, and in regard to the suplay that would be mourred I do not think any

Mr. Frank Perray, representing Waterford Chamber of Commerce, called in; and Examined Chairman Mr. Henney-contrast

166 You have heard the seddence stready given-box you give me my further information?—I were not have while Mr. Fords was giving his endonce. I am only here about 20 manues. In my optimin the poet ould be greatly improved by tree of the higged-distinc-tions being taken away—the ford and this have—and also by making does years quays. Before the war the more neglities.

1497 You think the teads of Waterired would be considerably improved if you had better transportation facilities 1-1 do

Mr Houses

1658 What are the relations between the Chember of Commerces and the Harbous Commissioners. They to very inentity.

1650. Be the bedies consult each other with regard

1600 Hra the Chamber of Commerce ever considered the question of extending the railway lines along the

the quantum of extending the rathway must along the quant—Not during my times. 1401. From what Mr. Fords shoted in his excitance, it would appear that the extension of the rathways along the quays has not received very much public himself—I don't think it has received very much public biopph! It was never accutanced during an experience in the Chamber of Osminzees.

1452 Does not that strike you as a peculiar thing-that a Chamber of Coursers has not discussed such a vital question?—There was no use extending the raila stidl question I—There was no use extending the railway along the quyes until yes had deep states quaye. Kerr amee I was a boy I heard the question of deep state quaye discussed. In fact, the purpose I think the control of the purpose I think the cost was contibing like 280,000. It was now spatially question of what I was 1642—843. I head from any fallow—1643. Has your Chamber of Commerce thought of all about the caminatarize of the shaded watermaps as all about the caminatarize of the shaded watermaps as 1464 Chn you present us with a memorandum set

ting forth year waws on these two pennis-firstly, the attitude of year Chamber as a representative body toracta the development of the pet from his Mision food point of view; and, secondly, its development penn the stational pelits of view as affecting the canality Mr. Field

1665 Have you any direct representation as a Cham-ber of Commetee on the Hardour Board I—Yes We have the power of electing 12 representatives from the Chamber of Occurrence to act on the Harbour Board. 1666 You are greatizably the Herbour Board—We My Fords I I explained in my critismo that the number of members on the Harbour Board was 24, and

how they were selected.

1407. What is the arreage attendance, Mr. Phelan, of your members at the meetings of the Harbour Beard!

—We had an election to day to appoint representatives from the Obsaber of Commerce on the Harbour Board. 1905, You 68 13 September 1918,]

Mr. PHELAN

Mr Field-continued.

1468. You are picking out the best of thers. pulting the best eggs on the top of the basket !- There pulting the heat eggs on the top or the common—nave ware only fitter attenders who had a but distinguished. 1899. Then you ought to have been able to do more. That is the way I look at it. You have allowed this business to go on for years, and never considered any-fitting about railway connection or equays or stranger.

Chamber of Commerce apparently nover made a more. There was no agilisticit about the manner— The difficulty was the frantical part. 1970, Brd you try to appearable the francial difficulty in any way? Did it stable you that if you have foun dues that you would have another 224,000 a year

Mr. Davin Macromata, J.P., Mayor of Waterlood, called in; and Enimined,

Chairman. Obstrace, as the control of the cont with a 6000 water connection from Dancemen to Ballyhabek, and a composition with the Rossition Rail-way, and a train-ferry thence to Fishguard, you would have the very best connection that could be domined between the New World and the Old I still dominat network the row mora and see that a depends on the expenditure of capital for remove that serious obstruction in the river from Woodstown to county Worked, and for the hundling of presen-tratio to chiland parts through the Guard Cassal to Dabin and through the rever to Cloudes! The removal overseas vessels of a termage squad to the termage that overseas vessals of a Soungle equal to the temage data social tie invegit, say, through the Secs Canal-25 feet. With the expediture of capital I dar't think is so through the secret time arcred the stelline that is so throw highless could succeed the stelline that is so throw highless could succeed the stelline that is so throw highless could be a trafa-fort to tenamistics of goods inwards and for a trafa-fort so that the stelline transpile of the second of the second of the second of the second of the 1544 December 1 cell that the second of the 1544 December 1 cell that the second of the 1544 December 1 cell that the second of the 1544 December 1 cell that the second of the 1544 December 1 cell that the second of the second 1 cell that the second of the second of the second of the 1544 December 1 cell that the second of the second of the 1544 December 1 cell that the second of the second of the 1544 December 1 cell that the second of the second of the 1544 December 1 cell that the second of the second of the second of the 1544 December 1 cell that the second of the second of the second of the 1544 December 1 cell that the second of the second of the second of the 1544 December 1 cell that the second of the seco

Mr. W. J. HIMMERSON, Waterford Agent for Surr Chairman. 1480-1. I undesstand that you are the local opens for he Suir Steam Navigation Co. !- Yee, sir 1482. Can you tell us anything about the condition ranging at the memora for truths up the reser?— Boween Waterieed and Carnok there is little or no difficulty. The principal defects are between Curried and Glorensi, especially during the summer season, enging to the recy shallow depth of water. The life actends for about a mile beyond Carried. Because Boyoos offends per shows a miss topone, tarries. Deputs that there is a system of horse healings. The harges are hauled from Carreck to Giounal by horses. 1633 Want is the distinct—About 16 miles Banges between Waterford and Carrick take at an half a load.

1484. What draught of water have you got 1—d don't know exactly what they would draw—one or

direct for on an owners, I think. In the summer time the 40 or 45 tons have to be divided between time the 40 or 45 team have to be directed between Carried and Clemel convertings between three between 1465. How do you propose to remedy that?—The completion was model that a system of write be con-completion was model that a system of write be con-completed to the conduction of the proposed of the proposed of the control of the control of the proposed of the control of the control of the control and control of the con

Mr. Faid-continued.

added to your revenue?-I are personally as fewery of

1471. Dod you ever bring that forward?—I am only stavely connected with the Chamber of Commerce for

1672. Did you over get beyond the discussing and resolution-possing point of view in connection with this habbest and the raising of turieds. Was there say actual proposition small by the Chamber of Commerce to the Harbest Commissioners that you explic to get into him and possible feelfiling such as existed in other ports 1—30.

most countries, if the revers are despend, the lomin-tics and places on the error generally provide their own berges, facilities for hamilting, set. Do you suppose that of the eyes were despond that this would be done in Waterford !—I don't know whether your power. would go so far as to make quays. We can only recommend. I would like to 1476 We can only recommend. I would like is know, if an appropriation were granted towards deep know, if an appropriation were games feel justified in song as the, years are scanny for pushing in pattern in accept that would bring in a recember. There is a others should under discussion between the Corporation and Harbour Board regarding the levying of town these to be divided between the ten capital to provide all our local requirements. We would then get foun due from the unmence localities which are served by Waterfeed. To levy these dues, however, we must get Parliamentary powers.

Mr. Zindov. 1476 You have no existing powers !-- No.

Mr. FGM 1477 Have the Harbour Occumusologens any existing 1473. As I understand it, neither the Harbour Board 1478 So you have to go to Parliment !—Yes, but it would be an agreed measure

Mr Field] We have agreed measures below the House of Commons that we have been unable to get through for years. You will have to rules a distur-

Steam Navigation Co., called in; and Examined. Chairman-continged.

1487. I suppose we will got that estimate! —Our people intended meeting your Committee at Curnel, and Channel with residence, but select me to appear Colonel Gretton. 1468. Is there any obstruction in the siver?-No.

1403. Is there any obstruction in the first I—No, except the shallowness of the values.

1400, he there a general shallowness —There are 1400. He was to be the control of 1992 In there any obstructions between here and 1635 You know of no complaint !- Not between Waterfood and Carriel

Matericed and Carriels
1494 What depth of vessels can you have up to
Carriels—It is Sarges we are interested in.
1495. What depth of barges can you take!—Four
and a half to inv test fully laden. 1695 In the rree always passable with fire feet!—
Yes, between Waterford and Carriek.
1697. You consider no improvement is necessary
between Waterford and Carriek—Wa. between Waterford and Carrick?—No. 1608 What is the distance by water from Carrick to Clounel?—About 15 or 17 miles.

1699 And

13 Scotember 1918.7

My HENDERSON

Colonel Griffon-continued.

1400 And there are obstructions along the way !-Yes, at minerals, not. What is the depth of water between the ob-structural—I don't know.

Mr. Hannen 1521 You are the Suir Steam Navigation Co.1 --

Yes 1992. Hase you got a charters—No. 1803. And the mone of the other company is the River Surr Navagation Co ?—Yes. 1995. Has that company got a charter!—I think

1805. Do you know anything about 111-No. Mr. Lindson.

1006. Do you get cargon in both directions 1—Xee. 1577. The bests are full going down as well?— Yee, as a rade. 1568 You are called the Suir Stann Navigation. (0.)—100 1503. Are you in opposition to the River Suiz Kasigation Co.!—No They are not a carrying com-pany at all, but they are a company formed to lwy

Mt. H. J. Forne, J.P., Representing Waterford Herbour Commissioners, Re-examined,

2516 I understand, Mr. Forde, you desire to make a statement in addition to the evidence you have already given not—Yee, sir. I went to make an across great to - 10, mr. 1 west to make at addition. There was a steamer of whest ordered to come to Waterford, and six was carrying 5,700 tons. She was due to arrive in Waterfeed this week. Two days ago the Ministry of Shipping inquired as to ours ago the numetry of Sampsing inquired as to whether vessels drawing 25 feet 9 inches of union could get up to Waterfeet to-morrow. The tide to Waterfeet to-morrow, is, however, the lowest of the year, so the Harbour Bastor repired that on that day if a restel was drawing on arrival here 23 feet moles she could only get about half-way up the given, where she could ancher, and either wast until Mon-

1518 I understand you wish to add to the evidence

1518. I understand you wish to add to the evidence you have already grown and—tweed little to add that if the approaches to the port were despected it would be a material advantage in acceptance good, because the strength of the control of the have been dalayed in getting up3-Yes, they could get up at low water. 1850 Do you think you would be likely to accumulate a sufficient trade bers to justify the use of larger steamers I—Yes, we hope the trade would

Mr. Picks.

1521 The improvement of trade depends largely

1524 I understand, Mr. Mayor, you wish to give as some evidence!—You. The notice given to us of this setting was so check that there was not a sufficient country was no goest their taxon was all a subsettle coportainty to prome a statement on behalf of the Cepocation of Cionnel, whose I represent here. Under the curemateness my orderne will be of a very meager chambeler, and of short darration. The

very meagure channeler, and or macer cantillish. Line statice great did not permit on to cultical lates and figures in connection with the important scheme we are adventing I have only to refer you to the Report of the Reyal Commission which commessed in extings in 1995 and published in Report in 1961. its attings in 1905 and published its Hoppit in 1921. Anything I have got to say is anoxy consistent in that Beyork. The same condition of adults so that the control that person is the condition of the control that person is the control that person is the control that the cont

Mr. Linday-continued.

1510. They take the tells and you do the week?-They have nothing to do with our barges at all. It is on minnd trading sleavers and vessels they take 1511. They are really the statutory authority for that portion of the river !-- I believe so,

1512 I appear they meet the Harbour Commis-money here at Walanied 1-I don't know

1813 Cho you just gove us any kind of sice of the portion of the river in which you are miscrated as to how it as to be dredged as it a samely bettern it it absence of water —it is absence of water that interferes with the navigation between Carrick and

1514 In there a unfinent flow of water three in your opinion, if these obstructions were removed, to carry the barges in normal times b-Yes, if a sense of were were erroted to divert the surplus water to

1515 Have you any idra of what that would cost or has there you any more or went much would cool or has there been my commute made as to the ap-proximate cost!—I have no idea

Chairmon-continued day for the higher tide or else be dightened there

The Minustry of Shaping, late that night, decaded that they would not allow the stoumer to come to Waterford, so also is diverted to another park. Steamers begger than this vessel there, however, come conserves sugger than time reservative, sometry, compare top the rever, but they were of a modern type, and draw less water. I mention this incident about the what abouting to show how important it would be to have this obstitution in the raver removed.

Mr. Hausen. 1517. That is really the Emperial aspect of the

Mr. G. A. Warr, Agent Clyde Shipping Co., and Member of Harbour Board, Waterford, Re-examined. Mr. Field-continged on the improvement of harbour facilities !-- One has

1522 It has been suggested that an arrangement

1862 it has been augusted that on ownexponents may be made between the Corporation and the Her-boar Commissioners to charge since. For lower between the comments of the control of the control of the control of the part of the control of the part decard discs to the resident MSS Masse year any four all the resident products of the part of the control of the cont

Aldernan P. O'H. Pryms, Mayor of Cournel, called in; and Examined. Chairmon-continued

stands out clearly to show the importance of canalia ing the river, and that is the great amount of land at present under tallage all over the country. This bay development in agroundance means an enormously big derelepants in agronifense meant an accessory in recessord rating, and if that inside were carried by water it would be a constellable to the carried by water it would be a constellable to a rolling or promes which of posent laws a difficulty in harding stands. For inconsert purposes, water conveyance as reads showing the constellation of the constellation of the constellation of the constellation of the con-traction of the constellation of the reads and have any constellation of the constellation of the con-traction of th would be better able to give you an near of what clin be done if proper attention were paid to this river. I may mention that the railway at the present time in unable to handle the amount of tradic at Obstand, and consequently the quays for a loss distance, even oppo-able private homes, have been alled with inable. To

13 September 1918 7 Alderman Pergus.

Chelwies-contanged principal stores in Cloursel are located along the outer

form of handage was in entrience in some for away part of China. Such a method is not applicable to European custom and mage in the breeffeth century. In order to show the Committee clearly why the process Meotre Frieds Brockers were compre to take near beats off the river. The necessity for this improve-ness was recognised by the Government in 1912, when they allocated 25,000 in order to do something to

Mr. Houses 1525. Is that from the Development Grant !-- No. I

1835, is that from the investment transformer thank it was given by Act of Pauliament. Mr. O'Slee, M.P. sconneted the Bill. At the same time the river as under no particular control, and even the women, which were exceled by the limb Parliament nearly 163 years ago, have to be kept in repair, such as they were, by the bost owners themselves on the Sur. Certaniy, the tenckway, noch as it is, was kept in repair by the County Consuct, and although I have no as thoring for aging on, I welly thank if a brood and generous aging on, I welly thank if a brood and generous representations and the improvement of the representation of the property of the con-trol was a surface of the con-trol of the con-

1595 I think what we would like to know is what traffic you received into Cloursel a few years before the

1527 Has any estimate been made as to the cost of capalising the river 1—I cannot my. That is a matter for technical knowledge. 1528. Who is the authority over the river !-- I don't think there is any authority from Clounel to Cornel.

Mr. Fold. 1829 Is there any authority over the river in which 1889 is there may nationally over the arms in which you are interested—who is responsible for the condi-tion if is in at the present time?—As far as I know, the County Council are responsible for the trackway. the County Council are responsible for the thinkeny, but I believe the river is an open waterway. 1800 Apparently the river as a kind of "No man's land," if you could apply the phrase to a river !--It is

1532a. Is there no statutory or local authority who is charged with the responsibility of using that the river is kept in order !—Not that I am aware of

want to make it someone's job 1532 How long have you known the river !-- I have

known is for forty years 1553 Has it improved or disimproved during that period?- Do you mean the river of the traffe?

1534 I mean both. Of course, if the river is dismi-stread the traffic is distinguised !—The river is normal, but the traffic has disimproved owing to the fact that the handings has become a thing of the past. 1535. You are not in a position to say what the cost of improving the river would be !-- I cannot may that

Us. J. E. Gavun, J.P., Correck-on-Surr, called in; and Examined Chairman-continued.

1556. We shall be glad to hear any emission you have to give us. Mr. Grubb I-I am sorry I have not contain rights on the river which are still exceeded.

The too, it is wrow too to make the market to the rights are to the public, see used the crew—to all the users, to the public, ever used the rever-to all the mars, to the public, except where a castle or an evaluar sented at the three could where a castle or an evaluar sented at the three of the passing of the Act. The Act gives the right to hard a loud to Ghernal except where a cointer or an evaluar of action to the sale of the rever. I now consequently a state of the control of the cont Surveyor, makis a marroy of the trave from Clemens is de-formed, and reported plans and spontfolions which formed, and reported plans are spontfolions which sended a puriful consideration of the property in a consideration of the constant of the plane of the sended a puriful consideration of the plane of the sended a puriful consideration of the plane of the sended and the plane of the plane of the plane was \$45,000. Then come the question at to be with was \$45,000. Then come the question at to be puriful was \$45,000. Then come the question at the plane well was to be actually of the plane of the plane well was to be actually only the plane of the plane of the well and the plane of the plane of the plane of the plane of the sended of the plane of t

Charlenses—continued, und 2160 continued, und 2160 continued to the County Wasterded and County Wasterded County C feltrent the Sair Seann Navagathon Company, manus as a private censers of which I was the owner, but which I so as the owner, but which I sold out to Meesen Thomas Walsh and Sons of Corridor Sair, and the Blove Sair Savigation Company. Mr. Walsh trades between Waterfood and

Clouned, and it is a perfectly free mavegation

13 September 1918.7

Mr. GRURR, JT

Chairman-continued one may trade ou rt. A question had been asked with support to the control of the erver. There is no countrol of the erver no more than there is of the see, except in

of the river no more train more no or an lest, croppe in so for so the Gread Jury, now the County Council, under an Act of William UV., are enabled to expend possey for its deepening, but only to the extent of \$500 pointy for its deepening, but only to use extent of know for one work, and only on the condition that the applicant provides \$100 out of the \$200. The County Expecting Grand Jory and County Council have exer-Repeatry Gamed Jury and County Controll have entrol that power on more than one constitute of Carralle Ribbealth, and purhaps elsewhere. They are bound as maintain the tankway. And in proportion as that trankway is kept in good ceder the framapeet of goods included a feathered, as feathered, as feather than the control of the control of feather than the control of impoled. The Brier Sur Navagaine Gensusy was subhibbed in Blook by Act of Palainarut. They con-cue powers, under their private Act of they con-cue powers, the surface of the Control of the year of Whatrioth, to the del bridge at Carriele, and no faither. They take follow per per too call so-oked certify towarding without bear fount. Tay how-old the averaging of the per control of the of the averaging of the control of the con-trol of the averaging of the con-trol of the control of the con-trol of the control of the con-trol of the control of the con-trol of the con-tr

may small, became the salegoing oral are very fore What is water in to mable see going oral of 500 tens burden to go up to the quay at Carrick, which is the very vestorm him. I Craft so 500 tens can come up at spirity tide at greenth. 1533 Do you know the discipling of the water Law warn 15 foct of water. We have at high tides 13 feet, all we wint 15 feet. has we wint 15 feet. There is one roof of periods on the inter a Garrell, paint of which has reserved far the series of 80 by James, Dukes of Ornored, in Queen Klümbell's time. He happed to be lung kee to last bases as Carrell English was been as the contract of 500 contract or contract of 500 contract or contract of 500 contract of the contract of 500 contract or contrac stepred grallosts and transl strpe of our coming up at a firse when the were making a row at the range of an anomalous of the street when the street was the second of the street when the street when the street was the street of the street o

1530. If you had another pur there, would you not

of Carrick if we could get an going steamers to come to the quar. There is land close to the over available for industries, and very voltable radiative could be started there, but we are at a lose by put being able to bring up stategoing vossels. These are very few visible now under 500 toxs. The five is indeed a bobby with me I have a love and affection for where I traded for fifty years, so I want to give the bust

District.

other powers.

1541 Beyon consider that the County Council could blue control of the river and pet sufficient revenue from the tells to pay interest on the sinking fund and to maintain the navigation)—I are quite certain that the traffic on the river would not bear a tell sufficient to pay the interest on the sinking fund and the cost of

sisintaining the navigation. I believe, nowever, that the tolls would be sufficient for the maintenance of the navigation, but not sufficient to pay interest on the

1562. Is there any estimate as to what the cost would be !-- There is one of \$16,500 by the Reyal Commission be le—there as one of \$1.0,000 by the Royal Occumisation of Canalls, and a subsequent estimate for \$2.000 for a very partial cannination. With regard to the carrying capacity of beats belowen (Connell and Carrier, the buryes leaving (Clornel entry up to 36 tents, but leaving for Chemel from Carrier, but below than \$2 to 25 tents, but leaving for Chemel from Carrier, they never entry more than \$2 to 25 tents. Two barges are halled by one set of access from Carrier, to Control. From Chemel. the river is in flood

1545, Do you know the amount of stuff in 1918 shipped from Glounel 1—No. I was not then in busi-ness. Mr. Henderson can tell you the amount of traffic down the river and up the trees

Mr. Hennes

1644 I regard you as a very important witness deed. You have been 50 years in business on Corrick indeed. You have been 30 years in brainess in Corrick and Clouncil-I was born in August 1848 near the Sonr, and I was in humans when I was 15 years of age, cent, and a was in husases when I was 15 years of age, and I quitted burpons in 1912. 1545. You have an intimate knowledge of the re-sources of the district?—I think I know nearly as mitch

ages you regard the river as an important factor in the development of the district. First of all you think the port of Waterford should be developed.—Yes 1547, And that the river should be

ot !- I do It might be slow, but it would be sure to come about-1849. Let us take the Local Government

messel-There is no Chamber of Commerce except the

necessit—Hyero as no Ginarbor of Clemotree completions of the Committee of poration and is excluded from the County authority, because the Comporation as the Authority within the Berough of Clemnel. In the Bosough the within the Berough of Commercial the Dolongy the males away see but little of the river and are not well

to Glornell.

Jike Three has been no organized action between the two Owarty Commells of Waterbridt and Trypeary to upon this different be pro-50. Three was a meeting called between the local authorities arteriored in 1915. I was not at the mosting and J. dor't. have what occurred. Before the Owardy Oxford evold do any work whatever an Ace of Parliament should be passed to whatever an Ace of Parliament should be passed to

2914 Then the war came on and they could not the money. I don't say far a moment that the T persay County Council is antagenistic. It may laborate for vani of infernation. 1522a Do you think that the development of mland must Do you turnk that the doctonerest of milard hearthy—weald react on the prosperity of the county—Yes. It would keep railway rakes chemptr and counts better prices for produce, because it would lessen the count of transit. 13 September 1918.7 Mr. GRUHN J.P.

Mr. Lindsoy. 1565. You spoke of the Toppersty County Council !--

168. Are not there two County Councils in Try-perary 1—Three are. I was in the South Tryperary County Council for twelve years and charman for tree years. 1555. Regarding the sum of £14,000 which was recommended by the Canal Commission, to when was re-commended by the Canal Commission, to when was it to be given half think the two County Councils were to units and they were to raise the difference between the Government grant of 25,100 and the estimated cost

1556 Of course, at that time the councils had a 1850 VI (curre, as man time was comment one assistancy powers in reference to matters of that kind?)

—No, they had not. I recall a sistement I have made.

At the time I am speaking of the \$15,000 seltme recommunised by the Boyal Commancore of Ganale was
not before the public, as the Report of the Commission
was not suchthand until 1911. It was no connection. and these are patches, as are represented by the second was not patched until 1911. It was an enumeration with the 25,000 where that the difference between the Government grant of 25,000 was to be raised by the two Osenty Connects. 1859. To where was the 255,000 who gives 1-70 the

1507. No whom was the 255 (2000 to be given 1—The the County Coursells to do the whole work. 1508 2 Complete of the portion between Westerlere 1509 2 Complete of the portion between Westerlere 1500 2 These exageing remails pay tell.—Yes. 1500 2 These exageing remails pay tell.—Yes. 1501 (Privacy Aghilton pay solding 1—No. 1502 In it always possible to distinguish between 1502 to the always possible to distinguish between 1502 to the always possible to distinguish between

the two crafter—wer. The burge never goes to sea. The necreat approach to that was two motor barren

Mr. Leadsoy-continued. which belonged to Massrs. Dowley and Sons, when I also represent hers. They go to the sea—to Dunners

[Continued]

1963 They don't go from Dunmore to Chryck !-- No Because Waterlord is where they ship the fish ecrose Mr. Field.

1564 Do I understand that the Agrountered Deportment made inquiry and were in favour of giving you a loan 3—I don't think they got as far as that. We a host 3-4 cert's summer of a salord for a genet. 1566 Del they recommend a grant 3-I think I have a letter from the Department, and that there as one holding out a pressure of a grant.

1565. Is it your view that you want a grant of £14,000 to carry out thus improvement 1—£14,000 now

214,000 to carry our was improvement — may two new would not do as truck as in 1806. Therefore a large-sum well be required. There is only 25,000 towards the cost, and as regards the remainder of the meant, I don't think it would be possible to make it locally. I don't think it would be possible to make it locate, it think there should be a Government grant towards seem of the work, not breads manufactures. 1509 Would be lead outborning gree seem dimercial help it a guarat were given 1-700, it think they would because for years they have been giving a grant. They have been just a grant through the colorest Table is in the leads to the same been and the colorest. Table is in the nature of a grant for the navigation

1508 If you were catalising this portion of the tiret, how many looks would be on at I... I am not an engineer. There is a 50-5t fall in the river between Scoblem name or ten years ago, but don't you think it could be done now i-No. There is no depth m it and the current is too rapid for a motor beat.

1555 Year spinion is that on amount of the one dition of the river that the business you had been carry-ing on could not be done now and made pay"—to could not Are you of openion that if a large expense was

Mr. James Prezzaw (Nesses, W., Pholan and Sons, East Owners and Tenders on the Surr between Water-find and Channel), called in; and Emminded. Chairman Chairmon-continued 1566. You can tell us something about the condition of the particular on the Sourt Labor way. We were

2309. You can still us scretching about the conditions that the control of the co thing to that evidence except to say that since 1914 we

1571. In it possible to use them !-- I don't think so The rows in summer times goes as low as 13 inches, and where the water is sowers the current at attragement. That is in a good many places, but in all the places.

1602 How many shallow places are there 5—A good many. But there are a few places where the water is deep and strong. I think there as a full about 6 or 7 feet at this place and the current is very strong. At no time could you week with less than 12 howes for a

Mr. Field 1873. Twelve horses !-- You. On one boat,

1574. That is going up 1—Nec. 1575. Yes cooked way with the current!—Nec. 1575. Yes come down with the current!—Nec. 1575. How, you seemed any common about consistency—Canalturary was the only schemes that I 1577. Del I member to current you can be road. 1577. Del I member to current you have road to come view to be read to the construction of Warren with Carrock at all 15 members to the current you have 1578. You had nothing to do with Carnels at all ?-

No. 1859 How sid you manage about lightening the beats?—The beats used to come up to Carrick to be lightened for Conceal. We could send from Cleaned around by Bagnaletown, but it would mean transhipping on the Grand Caral. 1585. Have you gone out of the trading on the river altogether I—Yes, sir

1.53t. Do you mean to say that it took 12 horses to bring up one bargs !—It would take 12 horses to bring a 49-ton load 1562 Could you not adopt makes Could you not adopt motor power instead of Of corne, I know it was not a practical

Mr. Grabb.] The Grand Canal Company from Dublin Hz, orsion, who times const company from Manus, and that disconting result the gracy at Carriek at present, and there is a moderate amount of traffic. They are stopped at Carriek for want of constitution, and are

undertaken in connection with the constitution of the trive that the expense would be pretified by the invertee that the expense would be pretified by the invertee of tasks that would follow!—I think so. 188 You think it would be a business proposition to expend this isonay!—I think so. Colonel Gratten. 1586 When you gave up trading in 1914 were goods still offering to come by your baryon?—Yes, 1587 You had becomes to do?—Yes, we had plenty

of goods to carry—coal and corn, flour, tember and 1588. General truffic !-- Yes 1889 As a user of the river what doubt of water would you required—I think you would want a mini-mum of about 3 fact of water, at its lowest. It is an important matter that the infile by canal or river

1590. Do you recallect how your rates compare with the railway rates!—The nobety rates to Council are very low in comparison with other places.

sery low in comparison with other pances.

1504, Are the rathery rates higher or lower!—
When we pare up fredding the subsey rates wege lower and they are lower at present, but there were extra
charges, such as eartings, which increased the rate. At
the presents time the rathery rate is lower than the tive rate.

1932, What reason have you for thinking the traffic would be nearmed and be of sufficient balk to be economic h-The river at present is not able to take the traffic they have. There is a congestion. Mr. Houses.

1500. If the rarer were properly canabased, would not the cost of handage be less than 11 was in 1915 when you gave up I—Of course it would.

Mr.

Mr. HENDERSON.

Continued.

Mr. H. R. Hantsonson, Manager at Clotmel of the Star Steam Navigation Company, called in; and Examined Charriers-continued.

1994 5. I understand you are the Charmel manager of the Sair Steam Navigation Company !—Yee, siz: We Cornols. I have been connected with the rever to twenty-six years. I can handly add anything to the emicros already given to you by Mr. Grubb, except to deal with more record facts. There are increasing efficilities on the way of carrying on trude on the creer. officialities in the way of califying on trade on the rever-buring the last six or severy very or either the Repart of the Royal Contraction on Canals was published, the state of the research of the have had a greater trainer of floods, so that the interference with the entits to Chonnel has been preven takes for a good usury years before. There has been absolutely include to the contraction of the contraction of the con-traction o dane to the held of the tirey within the peat five or size space. It some to be probedly beames to look offer the except, perhaps, the carrying compastes, and we need the organes of earrying on our business we large to be critically as the compassion of the compassion of the tow-critical the compassion of the compassion of the two critical that the compassion of the compassion of the two critical that the compassion of the compassion of the two critical that the compassion of the compassion of the two critical that the compassion of the compassion of the two critical that the compassion of the compassion of the compassion of the two critical that the compassion of the compassi

As for a take future is conversed. I think some special alteration to be some an absolutely necessary in the result. I say the year is an absolute necessary in the result. I say the year is an absolute necessary. The analysis are to be an able to expose with our simples made, we have bound post difficulty in getting the property of the property of the property of the ground. If the rare was desired for manyation the compation on the sublesy would be for greater. Itself concludes that these seems element for the improvement of the waterway is carried out within the next few years the liver navigation must come to a close. ever trade the traffic has almost doubled in recent pass. This is due to the development in agricultare, and, more recently still, in connection with trade-parties of the state of the state of the state of the tree it would seath ou in Comme to work chapper and to further cogniderably increase our trade. The streams of the has been mertimed here took at 1 feet that the talls could not be been to the took could be a state of the state of the state of the took could be a state of the state of the state of the state could not be a further some time to the state of the stat owners, as, owing to sudway competition, bost-owners could not get advances in their rates for froight to convenients they for talk. I may take that Gornard miles a rate of the convenient of the convenient of the Monte of the convenient of the convenient of the state of freshald for the same narround of milescent shade of freshald for the same narround of milescen-tation of the convenient of the convenient of the convenient and the convenient of the convenient of the convenient of the militages rather than the same narround of milescent the militages rather than the same narround of milescent the militages rather than the same narround rather than the militages rather than the same narround of milescent the militages rather than the same narround rather than the militages rather than the same narround rather than the militages rather than the same narround rather than the militages rather than the same narround rather than the militages are the same narround rather than the same than the same narround rather than the militages are the same narround rather than the same

-1590 Con we have a statement showing what the traffic was up and down the river in 1913-14 and 1917? - Tes. The saward trade amounted to from 11,000 to

or 4,000 tone less 1807. In what year !- That would cover the post five

to tan years. It has been almost the same tunnage right through.

1998. What has become of Mesons Phelan's first i—

They were sold. We bought two or three of the boats.

1509 Are they still renning —No; we are the only 1509. Are they still remning l—No; we are the only caliness at present soying to Clemnal, but we are working both bought of Whilato. There are other trades wereing between Water their and Corrella (I) Clemnal; but the control of their still control of the contr

Menty Fidelica 500. When you talk of 11,000 or 12,000 tons, that 500. When you talk of 11,000 or 12,000 tons, that so what you carry b-Yes 1002 Don we get a statement showing the entire taste covered to Olemnel in 19137-1 think we can get

Colonel Grettes.

1633 Would there be any substantial reduction in the cost of carrying if your barges were able to carry full loads between Carrick and Clonnell —There would continued to the second second

enabled to continue trading, and give a better service. Agricultural production in Clounel district has Mr. Hosnes 1694 I understand you to say that the agricultural production of the Clonnel district had nearly doubled

ness of my fars. We are engaged in the ovar business. Our business as even merchants was more than doubled Our resources as ever accounts we mere man accused, hast year: I should say the agracaltural produce de-livered in Chaured was commissably more than deabled last year. 1600 That is a vary important fact. As a business men, did you make out the hardage per ten per mile free. Weterland to Chemical—No; we never did that

ping in expense it would be hard to make it out, but I believe we can work it out accommands.

1607 Mr Grubb rather suggested that if the navi-

nov are visuo reaser augustes that it me save pation had to be given up that it would be detremental to Cleanel!—Unicobiedly. M66 Become he said the railway rates would be increased!—There is, this prospect, beakles an unastisfactory radient service

1609. In it your experience that under the existing

and is a year experience will know us occurring condition of things that the railway is not able to carry, or at least correspondly carry, all the goods that saw presented to these. Park experience is that the railway has not been able to mose a read of straffic Steamers have been field up, so groods could not be taken away in time by rail, thus mearring demostrage

1610 How would the steamers come in !-Steamers use in to discharge at Waterford 1671 Is it your opinion that any stoppage of this atorway system would be prejudicial not abone to 13 September 1918]

Mr. Haypeason,

Mr. Field-continued

Mr. Field-contin yearselves in Glemes, but also to the cultivators and predicers "—Fee, most decisidly. It would be almost disestrous to the town of Giomes if the waterway were closed. The traffic to Channel is about 25,000 teas

ciorea. The trains to Cromer in about 25,000 teams per atmum up and down. That would probably be doubled if the river were improved and the cost of navigation would be lessened. We have traffic offered to us that would double out tenning, but we are not

nie to take it. 1612. How done your expect trade compare with your iona. New done you'r expect these compact win your import trade!—Wer the past two or three years they are almed fore! That would be due to the develop-ment of agriculture, and to the increase in the amount of timber experted. Thus has been a very large in-crease in the quantity of timber experted in the last

crease in the quantity of timber experied in the last three or four years.

1655 Would the expert of timber secoust for the successe largely—The a large extent. The expert of timber free. Gleenis, Kilesteian, and Carrick has been almost doubled district the war.

1504 This could not be carried as easily by the tank as by year —Thisber editypen seem to prefer the

Mr. Throngs Munyary, Hanaging Buserior, Cloumel Brewery, called on a and Examined.

* 1618. You wish to give us some evaluage?--Xee represent one of the leading concerns in Coursel, and I assure you that we find the river, so far as it is able I assure you that we find the viver, so har as it is able to serve six, very convenients. It would be disastrous to the tenders of Chemrel if the viver traffic should cease. Cleared is a very clot fore, and has a great number of warehouses on the viver bank, and it is therefore a great convenience for us to get our shuff by water. The railway attains is most fastilest from

and town than the river. There is the cost of earliest on goods coming by rail 1519 Do you think if the river were improved that the trade of Cloumel would immess 3.—Undoubteally

nver. They have special fegilities for storing on the quays at Clonnel, Kübbeelan and Carrick, and there is less handling and less cost. 1525 The same applies to other articles !-- Yes

1017 Are you of openion that if the existing again, is allowed to continue that oversteally this water any oull be almost aution 5-2 should say so. If the San Steam Navanton Co were purely a carrying company is would have consent to called, but the propertors, Mesons Thomas Walch and Sons, of Carriot, an also

large tenders in coin and coal said have an infecest in phe firm of Messas Jelan Grah and Sons, Glorinal, she millers, corn and coal merchants, and it is almost a matter of necessary few there to coarry on the rowe basinessee. If it had not been fer their other basiness I think that they would have given up the river basi-ness as Mr. Périsa diel.

Charleson-contarted 1609. You are quite of the opinion, as a communical

man who has no personal interest in the rror, and on account of the canal being alongside the warehouse of the business people, that it would be a calamity to Ucanael if the waterest, were stopped?—I am 1621 Do you endorse the statement made by Mr. Henderson that the agricultural production in the Commel district has more than doubled!—Tes 1632 In what time!—In the list two years. There

Mr J J O'SHIE, MP for West Waterford, called in ; and Enamined Chelman Mr. Field-continued Preasury The Pressury hold this money

1623 You wish to give some evidence, Mr O'Shea's -J am anxious to direct the attention of the Committee to the rivers Blackwater and Bride I think the Suh has been very fully dealt with already. The position in regard to the Blackwater and the Bride is position in regard to the Blackwater and to the Soit. In defernit from the position in regard to the Soit. In the Blackwater is is a question of designing. There are 8 or 9 shoals between Youthal and Coppognin 1906 by the County Surveyor of the County showed that the cost of dredging would be \$4,000 and that

that the cost of diedging would be \$4,000 and that manufacence would not be a very considerable stem. As regards the river Bidds it is very important as trailing an occaserabl. It are not the Tailous distinct in the eathern part of the county Cork, and it is a Battonia canal. Thrive is no necessity for locks or cambination, because it is in its colonic a natural canal, and there is a very considerable trails in a sprontitumal produces. Mr. PhM 2024 Where !- Brom and to the sea. Vessels are very often detaused at Cappaquin in consequence of the shoals. The result as that the traffic has dimin-

the shoals. The result as that the traffic has diminished, because when a seagering result reaches Cappequia it is deteined sometimes for several days. The Brisle runs must be Biochestan should be suited up from Youghal. The depth of the Brisle is very considerable. It cames from the direction of Mallow. Taillow at the head of the navigation of the Brisle, and it has always hand of the navigation of the Rude, and it has always been a green contro of the core, tades staf, in couns-quence of the increase of illiege, it is store important than ferency that the navigation of the Sinds should be improved. There as an estimate of £1,000 yields should locking Surveyer for the enlargement of the swited bridge of the Erds to 60 feet. In estimated with \$1,000 more would be sufficient for diverging an £2,000 more would be sufficient for the first form of the and the result of the summer or transping an above for the extreme of the quays, unliving a total of \$8,300. That added to the Blackwater improvement made \$5,000, and the Treasury in 1992 agreed to provide \$5,000, and that out of thus fund that Mr. Grabb returned to which was now of 208,000 which was repositely be fewest Southern and Western Bullway Co. to the

in trust for least purposes. They applied 280,000 to the building of a bridge here in Wateriord. A sun building of a bridge here in Waterleed. A sun-of 253,500 reasonable, and they speed to grant of 253,500 from the Sunry and 254,000 for the Sixual Wall at Toronico. The source measures with the improvements of these criers could not be Sixual Wall at Toronico. The source measures with the improvements of these criers could not be Excess. Navaguistic Act possed in Perlaments to 1554. To was only then we had authority to speed a set of the source of the countries of the Countries of the Other Country Council of the Section of the Country General of Waterleed to deal with the of the Country General of Waterleed to deal with a

1625 Did that Committee ever most?-- It was no sot up because as the war broke out we were told we could not set the mapper then

Mr. Keatrag. Mr. Acateag

Mr. Dalla
Tarses members of the Reyal Oceanusson in 1990 m
Acateag

Mr. Mr. Maldron, and Mr. Minch—and they made

a report on the subject.

Chairmen.

1627. Would you tell us something about the trade on the Blackwater and the Bude I. The trade on the to Cappoquia. Schoppenini.
ISSE What dieft of water have you got at Black-water I—The dopth of water water the Bride enters the Black-water as at least 24 feet at the lowest point. B is only from that point up to Capponin shat the shools crist in the Blackwater now. It is a small proposition to deal with those two rivers.

1629. Do

[Continued.

Mr. Honson. 1620 Do you agree with the statement made by tion for you agree with the that men that the particular without the supportion of present in the agreement made to agreement the agreement of the support of the support of the support of the support of the particular the support there years. One of the great drawbacks in Gennel is that the timber has been held up on the placed before, because of the saw water sould be able symmer. If they got water enough thay would be able to take it away seen, and I bope they will. It is a

to once it and seen, seen a sope taxy will so it it great inconvenience to me become it is opposite to my one:
1550. Has the conveyance of heavy traffic on the
Historier as in a Coppognia increased 1—No, is
has dimunisted. The sheaks have been increasing
1533. The unprovement of transport facilities on the

Mr. Ludwy

1032 Was Cappequin always the terminas of the supplier on the Blockwater 1-No. The Dake of Describere constructed a cauxi of Liamore.

Mr. Lindsty-continued-1685. In it possible for a boot to go to Lamnore?-

Yes, but it is not used.

1856. As regard the Bride, was there any suthernly
over that true? 1—No, that was the difficulty we bed.

1858. Was there ever an achority at any time?—
No. The Youghal Harbear Commandment have com-

not know what the precise distance is
1636. Was not there a short cared at Mallow at one tune?-I council give sudence as to that. My. Field

1637. Is it not a fact that there used to be a small steamer for tourist purposes to Cappopula !--Yes. That has comed. The Royal Commissioners went up in

has ceased. 1910 1688. Did they got stounded?-No.

Chairman | On behalf of the Sub-Committee, I beg to thank all the gentlemen who have so kindly some

here to give us information to-day. The Sitting then concluded.

SEVENTH PUBLIC SITTING: SATURDAY, 14tm SEPTEMBER, 1918. At the CITY HALL, CORE, at 10 am

> MUNICIPAL PRINCIPAL Mr. Matthew Besting, M.P.

Colonel John Gretton, M.P. Mr. William Field M P. M1 PRILIT MACNULTY, Secretory.

Mr. W A Lindsay, M.P. No ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR

Before the proceedings communed, Lord Mayor of Cock (Councillor Butterfield) said :letter the regular processings begin, I wish to tender to the Compatine a certain veloces to the Compatine a certain veloces to the City of Cork, with the fervant hope that their short stay may be pleasent as well as instructive. It will, I am sure, common or the committee, or Armur shiney policy is a Ock man, howing been born in Douglas, and as such he is dyably selected been been for a to add that I treat the valid of the Committee to our City may be fruitful of good resolts to the City san to

City may be remained to the first the Peri of Cork.

Chartwore | I desure to thank you, my Lord Mayor, on behalf of my collectors and myself, for the cordinal melectors you have as himily extended to us. I assume welcome you have as himily extended to us. I assume

has shown it as well able to take cose of its own affairs Mr. J. L. Fawerr, Secretary Cork Industrial Development Association, called in ; and Raumited.

1639 You are Secretary of the Cork Industrial Development Association !-- I am off evelopment Association ! - I am, on 1630a And I understand you desire to make a statemenh to us on behalf of your Association 1—Yes. We observe that the Terms of your Reference are —(1) To sweetigate and report upon the facilities for transport offered by the ports and exactle of Ireland; (2) to resks suggestions for their companion and development; the (3) to visit such places as may be considered necessary, for this purpose. Bealing first with the Third Term of Reforemen, we desire to thank you, or abshill of the Ceck Industrial Development Association such the citizens generally, for including a visit to the city g of

But we wish to know about it, so as to report on it to our Mans Committee, and that if good can be done that it may be done. As you may be aware, on the 5th August last a Select Committee was appointed by Parif any, it is described to take to develop and improve the internal facilities for interpret within the United Kingdom; to secure offeners approvision and co-ordination, and to consume the such developments and improvements interpret and to such developments and improvements interpret and to make recommenda-tions. The interpret is also to make recommenda-tions. The latest the analysis of the make the such takes and the such as the such as the con-tents. The latest the such as the such as the latest the such as the such as the such as the such as the latest the such as the tiens. That Sciout Committee exposited a Sub-Deca-mittee, al which we are members, to uncestigate a contract of the product of the product of the pro-tal contract of Technal, to make suggestions for their equipment and development, and by cruzi scole play as they may counter necessary or the product of the chall be food into to hear any orderine year with to often as, under our Technical Sections, in connection,

Charmon-continued.

Chairmen-continued.

chalcone—contained, for all orders, before the chalcone of the is no canal system in this county. It ar inquiry, therefore, so far as the district is concerned, will control Mr. FAWSITT.

solely agen the port of Cork and its facilities for the Stillent or the Assistance and Petersony on the present year, in which is briefly set out data concerning (1) the situation of Carle Harbon; (5) its inclines for sim-pung, (3) the character of the irade and conserve that passes through our gatoways, and (4) the indentages with it delens for the accomplial conduct of inter-

national trade, with regard particularly to the period of intensitied committed competition to follow the close of the war. We have already handed in copies of this publication for the information of your mumbers. arrangements. In this connection we desire to press
the charms of Orek Harbour for consideration and recognition. For very many years before the way it was
the North Atlantic Moil Pert, and in such, served the
the North Atlantic Moil Pert, and in such, served the
commerce of those constrains with the American world stdings along the deep-water quays both at Quoens-town and Cork, and is connected with the trunk home avidled regularly of its sele anchorages, unturing and Isolizar at low nature spring inflow multi-map general langulerithms, the horseparing system a Dressay and Hamiltonian system and Parkers Person, Wall-and Co., and the properties of the Person, Wall-ton and Co., and the Person of the Person and Co., and the Person of the Person of the Per-olation of the Person of the Person of the Per-son of Science 7.7 to conside of these large since the Person of the Person of the Person of the Per-son of Science 7.7 to consider the large since and Stor, of Aurreas, said attent shapes and the constitution of the Person of the Person of the Per-son of the Person of the Person of the Person of the constitution of the Person of the Person of the Person of the many after the way. Only, how as June 1887 person of the protection of the Person of the Person of the Person of the protection of the Person of the

authorities, and which ought not to be overlooked Preland have been brought to your attention, suggest to your Committee that Bantry Bay, and expectally Barshaven, should be included in your programme of harbours to be visited in the suith of Ireland Bern. have in capable of very considerable development, and, provided it be linked up with the main trunk line of milway, may, at Mallow Justica. It would play an important part in the commercial future of

worthy of serious consideration by the responsible

Coming now to the facilities proper of Cock port And we say this without in any way withing to dis-

Charmon-contorned mage the efforts put forward by the Cook Houbour on our arear banks are so full working order, it will and builty congues, and to encourage shapherfiling is our midst. Machinery for the proper discharge of grain and coal boats is essential for cheap food for Harbour Board, we have learned, intend revisioning which land on the north bank of the river and outside subbland on the north bank of the raver and ormal the city's beauting. This is a tep in the right direction, and it is 60 be beped that the work will be carried through with exposition. Immediately fronting the land, on the seath bank lies what is locally factor as the Manna, position of which has become the pro-perty of the Messre. Ford, and, as a consequence, the recomplex of the regular receiping to Haddrock remainder of this frontage, reaching to Blackrock, has become enhanced in value for radisstrial and slop and account dissection on value our registers as men ampung purposes. Already more than one offer for this land for industrial purposes his been before the October of the State of the State of the State of the State of public peoperty, at present leased to the Apprendictual Show Committee, considerate the only city days of the State of the S Apprehimal Show Committee, consistent the only of a land entiligence to deep water unmodately available in unfortiful purposes. We suppose that this Martin Scientific is confirmed by company, and the factoring be converted into public purposes, and the factoring be converted into public purposes, and the factoring of the state of the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by the converted by the control of the converted by t enable shops drawing 34 ft. aft to berth alonguals cor-quays. It is fairly certain to assume that allign will quays at is lairly cerrons to assume that ampe was grow in longth and in depth, as well as in speed, after the war. Modern hatbour engineers everywhere, with this is saind, are framing harbour developments to this in mind, are framing accover our opening harbours and are despening harbours and waterways on an average to 40 ft. When we and waterways on an average to 40 it. When we succeed in attracting large vessels to our part, we must endeavour to retain the good will of the owners. stoners, especially under war conditions. sides, but would dispress our external trude. respectfully suggest, and because we consider the har beers of a country to be assets of national importance ties in this respect, and should make available, if no by direct grants in aid, then at lowest possible cost the capital required to unfortake this most necessary

work of port management and development.
Bealing near with our mileyan a port facelers and
transportation afginates. The most important gasless
source of the sorts and west is their of the Great
source of the works and west is their of the Great
source and Western Radbury, which serves Queentown and Western Radbury, which serves Queentown and Bradon and the Creix and Management and
services and survey. This order, we will be remarked as the south and not the city. There are
milleary relating on time of our queey, prantrully
milleary relating on time of our queey, prantrully
milleary relating on time of our queey. gord, so fer as they go, but not sufficiently extended, and at points require to be double rulled. The Earl goes, so for as tony go.
and at pouris require to be double railed. The Ferd works on the Marina prevent the extension to the cast

Mr. FAWSTIT.

Charriers-continued.

Charrens-contamped of the astings on Victoria Quay. This is a section check to the development of the Marria frontage. The quer city into ranning in the same direction to Elark come rity into auxiliary in the saste directors to Elizi-ra, in the Ood, and Frienge Season, waste terminal and treathern, as the endeates to Oric Hardons, where there are important including refresherations. Thus pullower were the months are made to the analysis of many pullows and the same and the same and the advanta owned by the Jamese, Withy Company, and to with reference has been always made. As the debts expand into distinct well grow in supertune, and from the ampert, as well as the propriates, pent of the south bank of our river and harbour, that relivary will require to be widened in grage, and to be agrees the city, either to the ships or other radway lines, at consecutive less of time and money are general meconvenience, so far as the transport of comsince is contexted. Bit this is a subject which may not be within part measured to report sport—if it is, we respectfully urge upon you, in the goods informed in the property of the property more or our quayarian and by carbing was conditions more or our quayarian and by carbing was conditions. But we refer act only to the abertuge of waggers which is growing in nervountant and day, but we wait to lay particular suphasts on the lack of suitable and to buy particular emphasis on the back of mittable and adequate emphasism at the goods extent for handhar, heavy fregight. There is, we are informed, but one hand-time of rather small power at the Coré (Goods Depti-ant it is a fixed machine. It is the only one available to both booting and unbonding. You can, therefore, readily understand the measurements and delay which accessarily arms as the Control Goods Depti, and which accessarily arms as the Control Goods Depti, and which

eered for the quick transport of merchandres over our Fidury. There so can additional point we wish to key par-ticular stress upon, and that is the less and injury sentimed by traders owing to the congestion of good-fer Cock at cortain English ports, notably those of inversed and Finaguard. This competition is the result, in size opinion, of the unsconcein numer in which supprays was braided in past years, wheesby with supprays are braided in past years, wheesby two pasts and distributions, poss by the Poor of Code and are taken on to Liverpoor. These the ship dis-charges and the goods are translationed to Orak, entail-charges and the goods are translationed to Orak, entail-dance and the goods are translationed to Orak, entail-charges and the property of the past of the property of the position of affiness at the Decks in Liverpool, we are formed, for the last any years has been one of increa-tions of the past any years have been one of increa-Informal, Jee the last may never have been one of increas-ing companion. The postelate, no first nodes in en-country of the postelate of the second of the companion and the second of the second of the last With the encion of Oct vious-sharm! when the last the second of the last Goods are held up [Instrumt odds with Johnson and the damps, less faw watching, six. In the present alreades of time do award from the partiritary interesting Cover, the opening of porce which would reduce large some to be detroited. It is no be sincered hepeff with, as seculi of your investigations, the portal facilities of freined, and conversity to those offered, under such rémandances conditions to shipping by the Port of Cerk will be availed of to the full henceforth, and that goods from shired interiod for this country will that goods from shired interiod for this country will

the important freights passing to and from Corl. Station. This is a matter which calls for urgent sensely

no longer be carried pust our gate heads, but will be duckniged within the portals of the first slopping port perved of a cheap but highly notitions funt of soil The great belk of the she at present contained in this country comes to us from British fiching perts. It seems to that Oak Harbour is admirably situated to be the home base of a large feet of travelete, equipped with all modern applicance. Facilities for equipped with all moorns appliances. Facilities to the handling curring and packing of the sik or a large scale should be peer ided at Queenstown, from which it could be distributed quinkly to the different matchest. The fabrics at Youghal, Ballycotton and Kinstele are inilway to the pure—a request which the people of this district have repeatedly put forward for attenden, but so far, without result. Bullimore, on our western shorelize, is now the principal fishing port of the South abording, is now the principal flaking port of the South of Ireland. A large and scendily confuncted fishers school exists there, and the railway has very recently been extended on to the piet. The fishermen have with the and of the Congreted Disturbs Bosed, beer mabled to procure motor-bests and up-to-data tackle enabled for procure moster-bonts and up-to-deals tacking These are, however, two matters requiring attention at Enlimmer, first, shodding it basily needed on the gast, or enable the hearing, curring, and pooling operations to enable the hearing, curring, and pooling operations the infeative needs the provision of an iso-making place the infeative needs the provision of an iso-making place to entire that, in the summer season, no children for will be lest for human consumption. At present, too has to be broadly from a far delatant as Edition, at, of

calcides of fish have not been whilly prevenued to auxiliary every both formwhole. We have that your Pleasity, we weather to express the layer that your the property of the property of the property of the pro-sent and barras of result, as a many persons (forest-neated atequaries as this country have general to be total that, on the centrary, the sutherities may aris demonstres of the results of your researches to put layered executional afforts as terminate and expand industry and commerce in this country. 1640. That is a most interesting statement you have given us?—It is rather peaced in its stope, but it will be supplemented by other orndence.

1041. Is your Association very large t—It is of considerable local and matseaul importance. We are the first Association of the kind in Irshand. We have been of considerable utility in getting firms, such as Ford, to come to Gork and we do our best to advertise Oxik abroad through the means of a monthly Icalitiza. We set in the especity of a Barwas of Commerce in foreign countries. Our Association is maintained by relatively contributions from the public. We have the good will of the online community.

1692. I gather that Cork is one of the greatest distributing points in the South of Ireland?—Tes. It series not only the whole of Munster, but serves towns very far inland, owing to its admirable gallway

facilities 1643. You seler in your statement to goods coming in here bring taken to Liverpool and brought book?— You Practically all the American goods that reach

1644 That is due to what?-Principally to lack of organization on our own part, and it is also due to the dismilination of English shirping companies to

cater for Irini trots.

1655. In it not also due to getting cheaper freights on large books, and that you have not got a market here to take very lig coppore. Househit there is sometimed to the complete large the property of food-stated of foor and grain and American books and strictles of the description.

1566. You have had large imports of American become my

(Sorress-continued 1647. Can you tell me the length of type that a

steamer loses by coming here—the extra distance she has to go?—I think the answer to that would come better from the emeri of the Harbour Board. Mr Mannon

1648. How long has the Davelopment Association been in existence?—Since 1903. been in existence—existe the quotiens of transport as 1549 It gives attention to quotiens of transport as well as to questions of internal development!—Yes, 1560. During its emissions there has been a marked development in Inth production!—Yes, down to the

opening of the war.

1661. Since the opening of the war agricultural pro-duction has ingreased I—Yes, but it has been continui

362 That affects the prosperity of the country as a whole-Tee. The surplus of the agreealtural pre-duce is experied. Our offeris have been more directly. does se expected. Our efforts have been more directly connected with the development of manufacturing in dustries, though we assest sympothotically and cudescenar to develop rural activity. 1653 Urban and rural development march side by

aide, and both depend upon the efferency of transport? —Absolutely — And your opinion in that if the port were improved as suggested that it would react farcurably to both in the South of Ireland —Verydenot Ireland 1600 — 1000 —

ment during the past eight or 10 years than there was pervised? —Ym.

1666. Would you say that what might be called the
undastrial spirit is being developed in Ireland?—We
have ordered of that on our files in our effect, and
overy manufacturer's and producer's books well show that there is a manuscul super-construction of the partial of the property of the 5657. I am patting this question because if it is needed other to us, their a vigorous industrial effort is being put feelth in Ireland, it would argue for the improvements of all season of transport—See focus are we do thus question of adiastical development that we have a reminered a justical transfer man. We have been

the first country in the world to do this, and our example has since been copied, America has a Bill belero Cougress for the same purpose. The trad ducer, and it enables the consumer to recognise readily

estive made goods
1668. That is no news to me, but some of my cel-leagues may perhaps like to hear it.

1669. With regard to the harbour facilities, do you 1660 Have you any idea of how the revenue is colthe harbour officials.

1861. About the railway adings, are they sufficient?
-No. They certainly are not at all adequate in view 1662 Is it your experience that the Great Southern 1992 It if your experience that the Great Seathern and Western Rachings have not aforquate inclutions at the process time to deal with the proofs traffic that cooking the season of the property of the country!—My information, which has been derived from one required in commerce in this city, is that the Cakit terminals suffice from two disabilities—a short-of-wave and the late of different process for the country of the co top of weggens and the last of curvana, loading and unleading recols.

loading and unleading recols.

1603 Is there only one hand ceans in the enemous well-order to get reformation. You want to get

> Mr JAMES PRICE, M.Inst.CE, M.Inst M E Chairmen.

1675 You are a harbour engineer, My. Price !- You 1694 We shall be glad if you give us some evidence in reference to the port?—During the last twenty years Inflowing improvements with their own turns

L. Desponing the channel to 17 ft. under Admiralt
datum from near Passage to Conk, making the pre-

Mr. Field-continued erans is ready, and when you are about to start probably there is a Government order to be attended and you have to want until the craze it again free.

1.004 With regard to your anogenism respecting
feating, as it your openion that Outs cought to be made
a basin centre for about medicari—Tea

1.005 So that we might create a need of recogn
Orienty, and be allowed to utilize the fish of our own
waters maked of young electrolect—Tea Cock have to wart until the crane is again free

waters rusteed of going elsewhere!--Yes Co port should be made the headmanters of a statrewing need 1566. That would enable you to help Youghall, Ballycotton, and Kirsule 1—Yes, provided these harbonys are 1667. Ate there not invisay facilities to Youghal? ... Yes, but the station is practically a mile away from where the fish are landed, and Ballynotton is even some trated-the nearest railway would be Midleton. Kinsale the rankway termings is benit on the top of

a hill 1098 You would want an seroplane to get at at 1-Lord Mapor) Fish taken in the sorthern waters to scross to England and come back again to Cook

Mr. Field 1660. Have you say knowledge, Mr. Fawarit, of the volume of imports as compared with expects—In our Monthly Bulletin*, which we have handed in, you will see a statement of the eventue annual imports and exports for a period of five years. They are as follows:

IMPORTS. Paranese 413,335 97,335 Cuttle, pigs and 153.916 233 cattle food, etc. 21,000 Sugar Timber Timber Butter, lard,

margarine, con-densed milk and Phosphato rock ... Bour slag Superphaphate ... CORNER .-Eggs and positry Fish (all kinds) ... onthers, hair, hides, skins and

1690 What is the zatio of experts and imports !-1800 want is the zamo of experie and super-flue reason I sak you that question is, if a tog resul-casie in would you be able to give them loading to go out?—Under the new condutions which have arisen I think we could people have come to produce teactors, not only for freshed and Great Britain, but for continental use also, so that we will be able to provide cargoos in

future.

AGT. Is it your opinion, as Societicy of the Development Association that by increasing the facility of trensport and having a indicate out for transportation, not only will the agricultural but the transportation of the current positions, not only will the agricultural better to climate presidents of the current positions of the curre per transport facilities our trade would increase ence-

Mr. Housen. 1672 I computalate you on your extremely able statement Think you.

"Monthly Belletin of the Cork Industrial Development Association for February, 1918 (Vol. 1, No. 2)

M.Inst M.E., Engineer to Cork Harbour Commissioners, called in; and Examined

Chairmen-continued. the Cork Harbour Communicacyt have carried out the Mr. Petes.

Charman-continued. non-trial with respect to cross-channel steamers &

a width of 2,000 ft , available for the largest Atlantic liner. This work was completed in 1915 1075 These are improvements that have already here carried out by the Harbour Commissioners !-- Yee, Before the war this scheme was started and plant per-sifed, the expenditure being about \$4,000. This work was majorated owing to the war. We have a

1606. That is the property of the Harbour Commis-senzest—Yes. This scheme provided for the measure of the walth of the liner anchoungs up to 2,600 it of deep water, and designing of the Turbot Benk to improve the curves of the western entrance obtained so as to give a depth in this channel of 48 ft. low water. The present control channel has a depth of 36 ft and a second sec for possiting grain-discharging machinery, is more the rate of eincharge of vessels at Gook quays. As to the cost of the written projected impresentents. With reference by the Lower Hardson improvement, M., Scale authratio was \$23,000—of the atom 24,000 was Mails, estimate ass 22,500—of the stort \$4,00 see squeeded on plant and designs, plants \$2,500 for future expenditure; but as the estimate was made as pre-war prices, the probable ose of completing the value would be \$25,000. The contemplated expendi-ture of the state of the contemplated expendi-ture occasions, \$200,000, Trovia quay, \$200,000 for at \$20, \$200,000; daschanging machinery, \$25,000; steal, \$250,000. Observably the Bearf of the present state of the roosey market, could not obtain the money by becoming seen with Talkinenstraty sanction. To corrowing even with Phakmenthy another. It comy out the works by small instalments from surplus sevens would take many years and delay the national benefits from large port improvements in the South of Iroland. If such a delay is to be received substantial. hose for expring them out without measured the hose for expring them out without measured delay. For instance, if large Atlantic liners such as the "Murretania", with direct driving nuricens, are to be used and require to call at Ook Harbory, the Lower Harbor scheme should be preceded with. On the other hand, if \$0,000 ton liners with gened tenthree ere to be used the carrying ont of this scheme may not

be necessary. For Tried quays the supercy will de-pend on the nature of transpistement. If that length courses 430 ft, or draft exceeds 25 ft, the selectic should be taken as hand at once The provision of discharging possibatery will, no deable, be ungast in

stay one.

1677. We know that the piec among skip people is
that bests are going to be built begen? —Our scheme would growing for vessels we be 1,000 feet.

1678. What is the date of Mr. Melk is report?—25th

1678. What is the date of Mr. Melk is report?—25th

1679. Sovember, 1973. The despening of the channel is

1679. The channel of the consection of deviation of the channel o

Cherrises-continued have to wait for tide, but so far we have no complaint We can take wassels up to 10,000 tons of cargo capacity 1679, With 25 lost draft i- Kes. We had one 25 feet

draft recently

1680. To where does the land belong that your board

1581 Are they going to charge you something for it?-Yes, £3,500.

1622.X. What railway accommodation have you?—The sies is that we get a siding from Tavoli. This would get over one of the difficulties of the Great Sculbern pany are in favour of this scheme. We can make a may yard altogether. The idea is that part of this would be allocated to timber, and the timber would be allocated to timber, and the merchants are prepared to take large acres, would be any amount of accommodation 1694 I presume this is something that would be self-anotaming if you got that land and reclamation !— Yes. In the first instance is will save its over \$5,000 on our could till. That is a substantial item. If the on our cost till. That is a successment item. If the beg ships come we must have those deep-water quays

1865 At present you have difficulty in getting material?—You. We have in hands, if we could only get materials, another extension of sidings along

Anticeson's Quays
1886. What dopth of water have you got off Passage
to the seal.—There are depths of 60 feet, but the lamiing ridue is the har below Queentown, where it is Colonel Gretton

M67 In reference to this softence of reclamation at Trods, what is the distance from Cock!—About two miles. The index to have about one infine for quays and the rest available for obligating ground. If neces-sary it could be all quays. 1688 About the entering of large vessels into the Harbour of Cork; is there any time when they cannot come in f-They come in at all times. The "Maure-tunis" and the "Lasterins" came in, and they were noterously had shap to bardle.

noteriously and stage to name.

1689. In year opinion large vessels would be able to paske the port in any affets of the weather?—Yea About the transhipping of goods from a large ocean or England, the Commissioners only charge on the or angient; the commissioners only enamps on the tomings put out of the ships 1699 What is the revenue the Commissioners derived—It is from shops and from imports and ex-

ports.

1991 What class of traffic do the cross-channel books corry!...Live stock and form produce to Engnotes there was store and norm produce to high land and general merchandise back.

1602 In your experience are the facilities for this tome in your experience are me institutes for this traffic sufficient in regard to bundling end as bright.

The Packet Company would like to improve the method of gesting across the street to pet goods right into the store. They had a scheme for doing that, but into the store. They had a scheme for doing that, but it was held up by the war.

1693 Do you provide cranss I—We have had cranse of 20 tons, 30 tors, 5 tors, and 5 tons, but the machinery is new what it eaght to be on the quays.

Mr. Hanner 1694. Do we understand that your board has a sur-plus revenue, and is prepared to spend it in the development of the posts. We had a surplus revenue,

do big things

Mr. PRICE.

Mr. Housen-centuroed

1660 Was the revenue tending to increase i-Yes, if was steadily going up for reach. Of course, there

1695 Do you know of any reason why the trade is not likely to improve after the war!-I think it will be greated, particularly the expert trade 1607. You think that will increase -Yes, and al-

will mean an ingresso in the import trade. . 1698 Can you massey for the finances of the port? -I know semething about them.

1699 Is the observes or socretary to give evidence! No, they are both in London.

1700 Perhaps you would be able to give us sufficient information !--We have a little table made out and

1703 Are the estimates you have given, amon to 2250,000, based on pretent-day prices !—Yes, two superious figures are the small oncetwo superiors figures are the small one-lower hasboar improvements, £30,000, and dischinging machinery, £20,000. They are the more argent. 1702. So you need not expend the quarter of a million all at once 1—No.

2703. You have not yet applied to Parliament for becruing powers I.-We have a certain assount of becruing powers about \$40,000, left, but for this schows, when it movies inkings connections and citings. I am advised that we require parliamentary

1704 With regard to the development of the port from the State point of they, while it year adheunt in-fact. Holk's estimate made on pre-war process was \$20,000, but the probable cost of competing the work will be \$20,000. We did ask the Government, through the Admiratky, for help in regard to the harbour improvement, and they told us that liked, and that they did not see why they should help. We would like help in regard to that scheme, sed also in reference to the machinery, because there will be a difficulty in financing them if you go in for much machinery. The Tived scheme is progressive—that is a the quay construction. The filling in of the land is a that we could reake

"Yea."

"Yea Do you think on national grounds that the exreceiver of a quarter of a million of money on your
port, extending over 15 years or the greater part of it,
it a sound proposition 2-11 the size of these meresas, have to cross these bridges, which adds to the en-

have an ample area to do anything you liked 1708 What kind of help have you in view-a grant of montey or facilities for leans?—So long as we get the coin. I do not care how it comes—if we could get a

1709 On what been did the Board of Trade arrive at the sum of £1,000 which they are charging you for this land 1-On the basis of other bits we get. We bought land f-On the beate of other bits we get. We bought fit never, and they said that the same figure should apply to the proposed land, Is the land really worth anything !- We 1710 is the into reasy worth advaning—we thought we ought to get it changer. Mr Zindouy I it is not a very large sum, but I do not like the idea of a Government Department doing

onyholy.

Mr. Field.) They do it eften in this country.

Mr. Lindsey

1711-12. If the port had been left us its natural state could the Admiralty ships still come in as they do now, with equal facility !- I think so.

1713. Whey use your lights !- Yes, and do not pay anything for them. 1714 You have a complete system of leading lights

1715. They pay you no does of any kind?—We had a clean against there for \$06,000, and so far we have only rec gin one

1715 Do you mean to say that in pre-war times they paid nothing m, the way of harboar dies in-They paid something. They paid does on the ship and many

Mr. Field

1717 How do you derive your revenue? Hove you town does and shipping rates !-- It is a medicate rate the goods and expost rates and rates on the shap 728. How does that belonce—shout half and half le

1719 You here adopted the system that obtains in all the big pects!—Xon. I took out the percentage on different posts, and I find that we are about the

1730. With regard to the facilities you have, do you consider at the present time that your mechanical appointur for leading and unleading ships is suffiappointed for feeding and employing stage to sur-cased and equal to the demands made on you is a first class hardour like Cork's—No.

1722 What expenditure would be necessary !- My first science was for \$8,000 for dischanging gran 1722 Houghly speaking about how much could you safely expend with the chance of getting it back by increased trade. The amount I have put form in \$20,000.

1723. The orthity of a port depends to a considerable 1723. The many or a port application to a combination extent or the frielities provided for the leading and subcading of ships b-Yes. Cask was remarkable for making a very rapid discharge.
1724. What is the biggest come you have b-Forty

1938. What is use Pagewa control No. 2755. You have no 100 for count 1—No. 1275. What is your opinion short Only harborr as remarkable push—it is certainly the best harborr in the United Knaples, and there is no difficult to the Chited Knaples, and there is no difficult to the Chited Knaples, and there is no difficult to the Chited Chit

Chertaing. Breryone knows what Cork is as a har-

Everyone knows what Cork as so a harbour

Mr. Plets. 1727a Have you may shapbashding in Cork?—The Passage Books are now building shaps. They did build 1723 With regard to your reclamation scheme, how nuch money would you require for immediate wants!

I think if we were to get \$10,000 a year for four or five years it would got us in a position to make

secontradation for bug thips
1729 Would that be your main proposition—that we recommend that you would get a certain sum of memory to carry out this scheme which would enable you to provide the incilities necessary?—Yes. 1730 You having the space available in the city for the purpose of enabling the tailway facilities to for the purpose of enabling the fullway mention to be so extended as to most the growing wants of Orck! —Yes, the reclamation scheme is a very important matter. It we had money for the Twoll scheme we

world naturally put up includes, put up includes on the quays. 1731. Do you mean by convertin 1731. Do you mean by converting the old shallow quay !—That is all done. It is included in the week that the Communicates have carried out during the

1733 What shout the accommodation for the live stock irado?—That is provided for by the Clyde Con-pany and the Season Packot Company Is it in your opinion efficient and satisfactory ?- I have never heard any complaints,

Mr. PRICE.

Mr. Lindsay 1754. In it organized that the great Southern and Western Bashway Company could help in my way in connection with thin Tired; scheme I—We might get it to help so far as laying the salings is concerned.

Chairman.

1756. You are harbour master at Queenstown !-The six Have you any evidence that you would like for you will have you any evidence that you would with all that Mr. Proc has said. He covered everything that I waiged to say in reference to the port. The only thing water to say in resprence to the port. The only thing I would his to add it is reference to the quays of Queenstown. There is protocoally only one quay states the Harboar Commissionners. The Admirably use the pier without poying for it. When Lord St. Bravis came hove he agreed this store quayage was required, and I thought he would recommend the Generalized to build another quay.

1728 Nothing has been done to No. Queenstown has been need by transatlantic ships and by men-of-

1720 Has there over been a suggestion made to have a deep-water quay at Queentown where ocean lines could come in 1-There was some suggestion many

could come in her-likely was some suggested on the property of mics.

1983. There is no extra distance to be teavelled in the case of a shap going from Laverpool to New York by calling at Queenstown t—No.

1765. You would have no idea whether there would be any difficulty in having a deep-water query for liners at Queenstown?—Absolutely none Everything is spitchle. There is possibly 2,000 feet of slob-land shee durks could be pully

Mr. Field. 2744. Are there any cranes at Quounstown 1-A one-

1746. Your evidence is that Admiralty vessels and big liners from America come into Queenstown, but, big liners from America come into Queenstown, but, of course, you don't deal with any of the cargo. Int. Registal ross-of-wer four't use our quay at all. They for use it new draing the war, but not in peace times. They have a dockyard at Hambowline, and they generated

ally use that ally use that 1746 I take it that you hold that Queenstown is the most smithle harbour for American Inters !—Xu, it is for the most untable in Indust. I know the lawhe me most tummer in around, I made the bear around the tenthed and they are not as suttained and the real substantial the valiency Saddition are also inferior compared with Queenform. We here also hady unique facilities for consummenting with all parts of Ireland and Bugland. Any ship in the world could come into megand. Any step in the world count case this presention and go coil. 1971. Suppose these but vected came here and make forcerations a port of call; how long would that call fature them from the ordinary voyage! What extra these would it take—how many heave—The franching works and the case would be true.

clientic steamers, when they come in to land the otherstic steamers, when they found in to hand the main, were sometimes under an heart. 2769. Would the state of the weather have a time to do with #1—Undetchedly. They come into the herbover and then they also shaddered. Once they get into the harbour they are still right. I have known the mails to be harafied in less them as hour.

Obsiensa.

Mr. Isashoy-continued. 1735. You would own the rulways on your own property!-That would be a matter of arrangement as to maintenance and control. We get on very satu-

Captain G. Uszonez, B.N., Harbour Master at Queenstown, colled in; and Examined Mr. Lindson.

1740. Was it not the cuse as regards the cutward trap that she liners were frequently detained for a considerable time on account of the trains being late? The trains did not always fit in with the stoumers!—

The terms did not always fit in with the obsainces— I dur't know where the dalay with or research was 1730. Whosers was to taken the state of the 1730. Whosers was to taken looks giving to New Erel — We showed that all the manufacturing to New Fort — We showed that all the manufacturing to New Fort — We showed that all the manufacturing to New Fort — We showed that all the manufacturing to New Fort — We show that it was a state of the New Fort — We show the was the showed to the New Fort — We show the was a state of the New Street Loren — We show the New York — We show the Street Loren — We show the New York — We show the Street Loren — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New York — We show the New York — We show the Street — We show the New Y

Mr Hennon. 1752. It is a fact that the query accommodation at acceptorm is defective?—Yes. 1763. And that it is recognized by the local cornmunity !-- Yes 1756. Has not organized effect been made by

1794. Has any organizad effort beam made by the Quantitative people to have base detect reneficial— No. 1 thinks not. I see the charten of the Quanti-tions Driven Council potent, but I don't think any copyration of after has been made to get another public quay. We have one public quay 600 feet long, but for any development of she port that is not serious. Colonel Gretton.

1755 Has Queenstown increased or decreased in recent yours !- Increased rapidly. The development of the deckyard and the development of Passage have made Queenstown. It has steadily gone ahead for

come years past.

17th There is remon why more accommodation should be provided to think so The lack of housing accommodation has become an impurison matter. More houses are required. Healbowline has greatly developed, and there are more men than there used

1307 That is war development to News before the war they were expirely measuring. Different one matters at the Admiralty laver reported that it was considered to the control field became the second of the control field became the second on the Control field became the second of the Control field became the control field became the second of the Control field became the control field became the second of the Control field became the control field ben 1707. That is war development !- Even before the

They don't discharge at Queenstown. They don't discharge at Queenstown in 1959. Why do some steamers go to Queenstown in preference to Cord-D-They alop at Queenstown is anotherage. They don't discharge of Queenstown be-anotherage. They don't discharge of Queenstown be-marked to the control dis-

cancerrage They con't cascastge at Queensown be-cause there is no place to dasharge. They cannot dis-charge a wheat ship at Queenstown.

1960. What class of shape use the quay 1—Ships with

1750. What least of shape use the easy !- Shape with trope, manifests, and three the Hanilbowins. 1753. With regard to debting, but Queenstorm at 187. The property of the property of the property of the for fidning. There are large fidning comform the neighbourhood, and shows an implie be an indeed place for fidning. There are large fidning comform the neighbourhood and shows are fidning comformed to English markets the fidning merring. Any other English markets the following merring. Any other Augusta markets are 1040wing morrang. Any other place owned do that 1782 How does the port of Queenstown deriv in revenue 1—11 is ander the control of the Cock Harbour Commandencers. Any revenue collected at Queenstown

Mr. S. Moveman, Chairman Queenstown Urban Council, called in ; and Examined.

part as a transationatic station, in the wiffination of the 1765 You have some evidence to gue us, My. Maymhan 1-I dourse to say only a few words. Quantudesponder quay at Queenstorn, and in the extension one position quary no quantition to the agricultural districts town is, of course, interested in the retention of the

Oks.com-continued

and sea-board cast of Queenstown. We have got full particulars as to the value of Queenstown as a immediate port. I would suggest that you call the Gock of our Urban Council, Mr. Campbell. 1764. Have you ever considered the advantability of

1765. Has any effort over been made in reference to it!—The matter is extrely in the hands of the Cork Harbour Board. All the reserve derived from Quoins-Harbour means. All the revenue conventions (ground-town comes to Cork. All the administration in con-nection with the outer and mase harbour is done here

1767. You have nothing to do with the days on ship-

1768. You gave estimate before Lord Sydenham's Committee |- Yes, sir. 1769. Have you anything to said to that evidence!

We need not sak you to weaks your time by going over that eridence again, as we have it before us. If there is that endonce again, as we have it before as II there, any other point not covered in that exclusions we would be glist if you gave it to not—I would like to refer to the articless given there, which is very supportant. 1970. We will put that endonce in Are there any other paints that you would like to feel with I—There are a few points that I would like to refer for mon-section with. Other the wealth of the for refer for mon-section with. Other the wealth like to refer for mon-section with. Other the wealth of the form of the fo for the dustharge of eargons by liners. at the docks into warehouses and teamhipped into cross-channel steamers for Dulsed. That graters is course, unfact to all the business interests cost of American produce intended for Irish tenders.

1771 Are you referring to the meal boots?—Yes, the small ones. They cross our harbour.

the mass once. They cross our horrows.

1972 Do you suggest that mail heats should alop here and deliver their goeds and go on agus h.-Yes.

2 don't say that sensels of the class of the "Maure-lanis" should do that, but there are weaks that are
not affected by any question of speed and that do not
acree until They might come to Queensions. not affected by any question of speece and ourse corry mails. They might come to Queemstown. At present I think there are some antiquated Customs arrangements in existence whereby steamers with eargo are not allowed to break bulk. I suggest that

177% You could discharge part of the cargo in why an armagement could not be arrived at to lead belience carried on to another port Queenstown could The main line of the Great Southern and Raffway runs to Queenstown, and merchandres could be sent from here all over Deland. There is now a siding on to the deep-water quay, and there is no that would be required would be for the Harbour Board to put up hydraulic crance at Queenstown and give these ships a clearance as quarkly as possible During the Boar War there were one bundred trans-Star liners came alongside the query at Queenstown and embarked troops for the Boar Way. If at that no reason way yeasest of a smaller tomalgo with cargoes should not come to the decaywater quay for the benefit not coly of Cork and Queenstown, but of the whole of Ireland. I think I noticed that all the I would like to say that I think it would be a great mistake to suppose that there could be any rivalry

Mr. James H. Campunz, J.P., Clerk of Queenstown Urban Council, called in; and Emmunol. Chermon-continued

in Cork. Mr. Campbell will give you more detailed Mr Hanson 1766. Do you say that the rates of Queenstown and

the Urban Council of Quaestatown are in no way re-lieved by any dues!-They are not. The rates on shipping all come to Cork

between Quoenstown and Galary. I want to point on this there is no rivalry between the two perts. Galary is insteaded to serve Canadian instances, but Quoen-tawn will always be the natural post American mails and cargos. We would be only too pleased to see Galawy opened up as a post for Canadian tentle in connection—with the deep way. connection with the deep-water quay at Quenatows, we also think that the quay might be utilized for cross also have that the quay might so outlined for cross-channel traffic. The goods pass our doors and are carried to the city of Cock, and the irrelives felay and expense. I see no record why the cross-channel o got discharged at any stage of the time. It happe arranged by the Queenstewn traders to get goods and merchandise by these steamers once a fortnight 1774 That is a matter for the tenders !- You

connection with the development of quitensiows were is mostly matter that we also want to bring under your notice, and that is the question of the railway communication between Queenstown and Ballycotton. and afferd increative employment.

1775. What is the distance from Queenstown to

parpose of running a railway to Ballycotton.

1777. What is the papalation of Ballycotton in it is small. It is mainly a fishing control is mannly a readerstial chatron for health scokers in summer.

1778. Has say offer. 1778 Has sity effort been made to provide a motor service?—Not from Quenatiows. The idea was to link up Quenatown by gatting a bridge across the river at in Obcessions by genting a stringe scross the over at East Ferry and connecting it with this important agri-cultural district east of Queensteers. We would thus tap the town of Midleton and pass through Choyne and on to Ballycotten, which is a very important fiching district. Underturnately the scheme did not go through owing to financial difficulties. I urge now, as you seem to be anxious to help the inland transport of Ireland, that you might see your way to ask the Queenslown is cut off from rt, and the fishermen cut of from the mariests.

1778. Will you put in details about the rathway in writing it—Yes. If you have I will put in as evaluate the latter of the engineer at the firm who reconstitute of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the firm who reconstitute in the latter of the engineer at the latter of the latter of the engineer at the latter of the latter of the engineer at the latter of the latter of the engineer at the latter of the lat

the inner of the sugmeet at the unso who recom-mented the scheme and punted out the advantage that would be derived from the railway. 1730. Yes. You may hand in that letter. Think Mr. Field

1981 Do I understant that your object is to have a partial unloading of vassels at Queenstown of any goods that are intended for this part of the country! Yes, certainly. It is quite feasible. 1782 With regard to the cross-channel haviness have you made any representations in any way to the were made about fifty years ago, but Quomatown as were made about may yours ago, as you want and a port was not then the place it is now. Trude at Queenslows is now countdenable, but all goods come through Covic. The steamers pass Queenslows. * Not received.

1783, Did

Mr. Campbell.

Mr Feld-continued.

1983. Did you ever hear that "a dmmb priest never pit a parish" !—I did. 1996. You must ask or you won't get. Some state-ments were made with regard to the delay in the out-worf made evering to the dislocation of reflexy traffic, and it was stated that the outward mails were delayed

for hours. Here you may knowledge as to that par-ticular fact i-I have, sir. I got an official return My. Lunders 1785 Is that in the Blue Book !-- Probably it might

he a reference only. Mr. Field.

1286. I dan't shink it is. How otten shi hits overy.
Mr. Completifi—I got offer the state of the overy.
Mr. Completifi—I got offer the state of the overy.
Mr. Completified of the state of the overy.
Mr. Committee, and I sake got perseasing of the sayers of the mail trains, and I made a colonisties of the state trains, and I made a colonisties of the sayers of the state of the sta

Major Ground Bunnard C'Ousson, J.P., representing the Cork Industrial Development Association, called Chairmen.

2702. Do you wish to say something, Major O'Con-not -- What I wanted to say was to supplement the ordence of Mr. Faysati, the Secretary of our Indusin the course of the evidence that has been given. It should like to remark, in repeat to our Scoretary's exidence, that we wish to impress on your Committee that, haring regard to the states and ourput of the imports and expects of the only, we don't thank Cork complish the postings it broadly. We astribute that to the defective conditions of the quays and to the actival state of the railways in the city. In Cork

Chairman 1794 You represent, Mr. Coffey, the South of Ire-Provident should be stee, but he is unable to be present, and I have been asked to answer may questions and to point out that the live-stock trade from Our or ports of the live-stock trade from Our or ports. tors is not adequately catered for Our exports from Cock have been decreasing year after year, and they have been very considerably less during the past 1795. To what do you attendute that f-There were two causes—the lack of shipping facilities and also

regard to detention at the other rate.

16 Is at that you counts gather your cattle to Ork, and the expense is greater than by serding them by the Rosalare route. We have not the through bookings. The through bookings get priority over Mr. Honnes

1397. There are no through quitle rates from Cock? Yes, but they are not peneral.
1795 Have you maked the Department of Agriculture INCOMESSATION IN ACCOUNT OF A PROPERTY OF A PROPERTY OF SEA THOUGHT WHEN THE ACCOUNT OF A THOUGHT WITH A PARTY OF A PROPERTY OF A PARTY OF A PA

help us a little.
1799 Do I understand that the treds that ought to to through Cork is being diverted to other ports owing to the want of through rates —Yes, the experts are Mr Field

1800. From Cock?—Yes
1801 Do I understand that you disagree with what
was said by a witness here to-day, that the livestock
traffs free Cock was more satisfactor?—I do I am tule satisfied that it is not musicotory.

1802. Do you complain of the delay here in Cook in resert to the handling!—Yes.

Mr. Fidd-continued twenty-seven minutes in these cases, and not five or

1797. Is this in the Blue Book !- It is in my evidence before the Systemban Committee.

Colonel Oreston 1758 What has the Urban Couped of Queenstown

1788. What has the Urean Council to quara!—We have done towards the development of the quara!—We have no resources or control over them. All the dues from the lower harbour go to the Cork Harbour Commuomers. 1789 What becomes of the daws on the goods landed a Grassestown !—None are landed. We complain of

at Queenstown !- None are landed. We complain of this. They will all go so Cork, oven the dues on the And those goods are brought back to Queenstown !- Yes, by rell, and at extra cost to the

1791. The Urban Council has not been able to do snything !- Because we have no control over the har-

there are fve terminal stations, including the Great Senthern. You can throw a stone almost from one railway station to another. That necessitates break-

1783 Has any effort been made to get the raft-ways to have a joint station!—That, I believe, has been taking place; but there are officials who will be been takerng place; but there are offerals who will be shale to give you better evidence on that marker than I can. I believe that the Cork and Euroba and the Memorous Railways did run into the one entition at one time. It does seen to us that it was an ex-trested, amendmens state of additus that there should be free distinct railway stations in a city of the size of Cork. Two of them are opposite to each other,

Mr. Francis Correct, representing the South of Ireland Cattle Traders' Association, called in ; and Examined.

Mr. Field-continued 1803. What nort of accommodation have you got?— The railway facilities for dacharging the cargo when it arrives is very good, but for our outward trade it is bad. More facilities are winted. We naked them

to increase the pens, but the ruleway company may they are unable to do so owing to war conflictes. How-ever, before the war, when their attention was drawn

1804 Do I understand that some of the Steam Packet Companies have atood in the way of these through beologis 1—I should say that our City Oct Steam Facket Company must be the aggressor, if I may call is 50. 1805. What has the South of Ireland Cattle Traders

Association been douge—We have been dealing with them for a very considerable number of years without any result, and also the Chamber of Commerce had this question before them as many as fifteen years ago.

1805. Have you any suggestion to make to us as to how we should help you?—I should say that the Board of Trinde ought to see to the carrying out of the law.

1807. How do the five railway stations disconnected in Cork affect the trade !—You cannot consider that 1938 Is the best accommodation good *-In prevar times we had very resonable accommodation ex-cept that it was not sufficient.

Note that the second of the se Colonel Gretten.

14 Sentember 1918 1 Mis. Coppey.

Coional Grettan-continued offer any more advantage except in the case of the maleage in the country. We would have less mileage of railway to Cork, say from Lenerick Junction. The

Mr. Theorem Freezerick, Ship Agent and Tumber Exporter, called in; and Examined.

1833. You are a ship agent?—You, and a representa-you of three-fourths of the native timber experiers 1814 You want to say something about the port facilities !- There are no facilities whatever recorded

by the Harbour Board for dealing with catgues in port. The result is that there is a great difficulty

jorn. The result is that there is a great difficulty in getting stress abjunctes to use the port, and only for the entipolition corrected on them by the thready of the control of the control of the control of the steemer costs; no Cork at all., as would have a steemer costs; no Cork at all., and the control of the prilation of the control of the control of the control prilation of the control of the control of the control of railway actings, carnes, and gardines, but store then they have not made a norm in the matter, not see the public aware whother they have sections intestion of doing so even after filters years.

2825 De yeu know the season why they have not done so !—One of the reasons is that the Labbur Party, through a short-sighted policy, got it into their heads that mechanismy would do away with labour. their brack hast mechanicy would fix away with labour, minted of hasting the opposite office.

1807. Yen have no cranage—None proceed by the Biolotory Eront. The Gress Southers and Wooden Balliesy Company have four hydrathic exame, but his force of the proceedings of the company of the Gringles on the meschate had to pay 870 for decrea-rage. The account of their five the export of nature inches in allogather analogoush. There are only \$50 bits of query guess allowed for it, and the Beard Long introcold the dies by 00 per cout. There are no

Nosh's Ark 318. There are 500 feet of space |---Yes, but there are only two bortis.

1819. What space is there where the Lydraulic

counce are erected !- About 600 feet 1880. You have about 1,100 feet of wharf !- Yes 1823 And half of that is occupied by the railway!— The wharf is about 1,400 feet long, but there are about 400 feet blank, about 600 feet occupied by the

about 440 not came, noon out has compare by the feur railway erame, and the balance is allotted to the expert of native timber. 1822 Are these whereas owned by the Harbour Communicum !—Yes John Mission is a state of the malway crance are, is that reated?
It is used for steamers having traffic over the Great ionthern and Western system. On the south side of

something and western system on our seven son on the inver there is plenty of accommodation but no facilities for trace-shirping from the ship to the real-way, or was serie. These is no space for the use of home grown tumber
1804 How is that handled?—The timber comes up by mil and the man throw it soit. A couple of other rene carry it on their bruthless to the may a dis-terminate there until three is soft-count quantity for the sections. The landing in amoreous-try prolonged directed to other ports. During the last fortuight tuber from Clare Costle has gone on to Limerical, 1855. What depth of water have you got—About 16 foul at low whether. It is strongly the by rail and the men throw it sut. A couple of other

Your idea segue to be that there eacht to be

have some evidence to give us, Mr 1848 You have some evidence to give us, Mr. Dowdall!—I had not intended to give any evidence. I out a margarine manufacturer. It is an industry that

has a margarine manufacturer. It is an manurary tanks developed in Ireland in recent years. In normal times my firm would import from the United States about 65 tons a wool, which passes Cool Harbour and goes to Liverpool. There are other farms here in a similar nosition. The stuff is landed in Liverpool.

Colonel Gretton-continued. 1812. Your evidence is given from the point of you of a large farmer who is also a cattle dealer or Con--Yes. The president of our association will send you in a detailed statement.*

[Continued]

Chairssa-continued. better facilities given here by the Harbour Board in Cork for the improvement of made 1-Not better facility

1887. Do you serrously contend that the Hayboar Commissioners have provided no feedbride at all for dealing with tenffic - Absolutely none, except a few hand cranes, which cusnot be used for coffmary pur-1825 That is a very sweeping allegation?—There are efficials here, and they can challenge it, if it is 1829. You refer to labour troubles in the next above fifteen years ago in connection with machinery !- Yes. Local labour ! machinery t—Yes. Local labour thought it was against their interests to have machinery provided: 1830. Do they think so still t—No, because they cu-not now use the hand genr. Mr. Justice Dead has pri are now use the stand genry arr, Justice Dool has put an ead to that.

1831 Do you think it would be a considerable assist, ance if the machinery and other inclines; you suggest were provided "-Yes, because out has been larged u

1832 I think we ought to have some reply to the sweeping charge this witness has made against the Harbour Commissioners. 1833. It is on the record. You sucks. Mr Pits patrick, of timber coming from Clare Cartle!—Yes,

going to Girmon 1854. You think a destrable route from Clarc Casile to Garston was vib Cork?—It has been sont that way 1835. I think Limerick would be the natural way? -It has been sent by Cork. Mr. Field

1836 De I understand you to say that whatever facilities there are on the nexth side for leading and unloading, there are obsciptely none on the south Official sections of the sections of the section of has inverted the development of the porth-Yes. 1838 Heat been your appreciate that that hat has operated injuriously on the porth-Certainly. 1839 Security in the porth-Certainly having and unleading were provided, ships would not deser-ted porth-Clast is so, and had it not been for the representations made by the Director of Shipping, you 1842. Are you aware that a lot of coal has come by milway that should have come by ships?—Unforte-

ately I am.

1841 Hans you care not at before the Generoment of the Transportation Director, who would do the right thing, that you are using up oad in earrying eargest to Cork by mill—That has been done, and as a result

Mr. J. C. Downatz, Margarine Manufacturer, Code, called in ; and Examined. Charrynan-continued

Charmon—continued

Even before the war there was congestian in Liverpool
I had goods in Laverpool fee even month, before the
war, before it could be seen a month, before the
greet subvanisher if the rise materials which we get frost
America were discharged in Cark. There would be a
zeving in time and does, and the competitor at Levi-

* Statement not received.

Mr. DOWDALL

(Continued

Charreson-continued. pool would be relieved and a good deal of tenrage

possessible part experienced any difficulty is guing part expo such to shoose any port of your control when the port of your control when the part of your part of your control discharge fast have been part of your control discharge fast have been part of your control discharge fast local. We have seen pools on the best freet Cort to Septhampton and Fivenesch and Lordon and discharged some for each place. But I was descript to the pools which we go freen the United

PASSAC.

1844. From the United States you have insafreds of stemants that have two or three ports of call. It propries in Coak wanted to get good street kery world have little difficulty, if they got suffices of quality together, to get stemans coveres to discharge). In the great extent we are in the heads of the door of the propries of the control of the coak was to the head to door what you further States. We only see that he door what you for the propries are not seen to the head for a range.

suggest on one occurred when the head line rame

Mr Joseph O'Stilleran, Member of Cork Harbour Board, called m; and Examined

1848 You are a member of the Cock Harbour Beard, 1988 Yes are a number of the Ook Harbour Beard, Mr O'Bullivani—Yes, ut. Fut I am ast going to speak of the good solution of the Harbour Beard, because of cannot a cannotic of my own detence. I want to say seemsthing in selections to the finiterior of limitant. I am myrelf largely engaged in the onli-city of the control exacge trade As increasiting is a by-propolar of cold surges, and having the plant proposalty allo for three-izorthis of the day, I cannot that the proposal strain year of the day, I cannot that the scale of the con-good Bing for the Isham radiustry. I flow varied ports the Skytherson and Matteners, and the variety of the Skytherson and Matteners, and the con-traction of the Skytherson and Matteners, and the property of the course to Dekky, and Irom Dahlant to Oxid, and was went down to Skinherson and Bellinouse, it was plasted to other object they variety of Sci-lus as plasted on these objects they variety of Sciat was planted on the quays of Barrissore, and we got there you wondered what they wanted it for. Mr. Phil.

3dr. Field.

1849 It was half green?...It was three-fourths gone I then visited Danmore. It is a great falling place, and I found very often that these bods came in with leads of meshcort and were east to see again I found the sum in Galway and the same result.

Mr. Jóny Yamas Japo (Messrs. Emitace and Co.), Representing Timber Stevchants, Cork, called in ; and Examined.

Chairman 1853. Do you desire to give some cridence !- I just want to support, as far as I can, the steps which have been taken by the Harbour Commissioners in connec-EXX with the 'whardap of tember. Pervises to the war Occh exceptants amported 2 (200,000) onto feed of tember. The space for discharging timber at the port is sow entirely inadequate. The only place remaining a pro-tically the poblic reselvey. Timber takes up in let-space, and regularies to be settled before a per-space, and regularies to be settled before the pull-ration of the properties of the properties of timber. The quark production of the properties of timber.

1856. And all you want is that the Harbour Board should get a grant I—Yes. There are a lot of trades dependent on the timber trade. There have been no imports for the past two years, and when they do come

Mr. Lindsty 1945. Is your brainess confined to the South of Ire-land, or do you go ever the whole country!—We soil our goods principally in Great Bertain below the work, but now our trade is almost enclosively confined to Ireland. We send all over Frainch!

1900. Oscil see your firm and other farm that import you waterful secretary for the and other farm that import you waterful secretary for the continuous of the year when transitioners key large constitution of the year when transitioners key large constitution of year when transitioners key large content of the secretary for the continuous firm of the search [11], a mail slap [12]. He would be seen that which on a happing and the continuous firm of the search [12] and it is disposed to the secretary of the secretary in the secr

1850 Our Sub-Committee has to deal with the questorn of transport !- My object to that there is absolutely no see in binding exposions peers or extending raif-ways suthout priving the people see. At present there is absolutely no use building these "Grazella Jehn Begain" piny, and when the stell is got, throwing it back into the occus. I intervened the Discussed Be-trick Beard, and pointed out to them that I was only a prevete individual, but that I was prepared to spend \$10,000 on additional medium yil I had, "Michael \$10,000 on additional medium yil I had," "Michael because if resolverel were peckled I would be affected If you want to develop the finkery industry you must At you want to urrespy the maney immustry you must, have an exemplaing plant, and it must be put up in Orck, which is really the only distributing centre. 1851. Unfertunately, we cannot make any reference to this is earl report!—The trade would grow.

Mr. Hosnes.

1862. Your evidence is that an ice-making plant is a morestary part of the equipment of an Iresh fallery port 1—Tes, say

they will come with a rush. The Ford Co. has taken ap the space that would otherwise be available. 1887. I imagine there wen't be any hig rush for some time to come?—That may be so. Of Field

1858. You think the proposed relatastion scheme of the Harbour Commissioners would remedy what you complain of 1—Completely. 1599 Do I understood from you that the roofs belong to the Corponisto, and not to the Harbour Basel 1—That is 60. 1860 De the Corporation try to meet you in every way in regard to space!—Yes, but a day or two after a ship has been discharged you have prosecutions for

a stip fee near incompany for an observation of colorating the readway.

1861. By the Corporation 1—Yes. They are forced to take action, whether they like it or not.

Chairmen 1 On behalf of the Sub-Committee, I beg to thank all the winnesses for the information they have given us. It will help us considerably in prepar-

ing our Report for the Man Compution (The Sitting then concluded.)

EIGHTH PUBLIC SITTING: MONDAY, 10TH SEPTRMBER, 1918, At VALENTIA RAILWAY STARSON, at 10 a.m.

Colonel John Greifen, M.P. Mr. William Field, M.P. Mr W. A. Londson, M.P.

MANAGES PRINCES.

Mr. Walter Hudson, M.P. Mr. Matthew Keating, M.P.

Mr. P. J. Hannon. Mr. P. J. HANNON noted as Secretary SIC ARYBUR SHIRLEY BENN, M.P. IN THE CRAID

(Rairwan) We shall be glad to recove any systence you have to give us in reference to Valentia Harborn and the transport facilities of the district.

> Mr. W. L. Hickes, Congressed Districts Bourd, called in ; and Exercised. recommend that the Government should provide from

Mr Micke made a general statement dealing with the whole of our concern in the meantime were pro-duced by open-lood shoung, whereas, in the spring-fishing is carried on by large decked bonts fishing about fillean males out to see. The Dingle bonts par-tropand in the undastry, but did not operate on Sus-tinguish of the best of the property of the con-duction of the property of the property of the con-duction of the property of the property of the pro-tor of the property of the property of the pro-tor of the property of the property of the pro-tor of the property of the property of the pro-tor of the property of the pro-tor of the pro-tor of the property of the pro-tor of the prodays, as that the Sub-framentes this for ten may on Menday morangs, the left Suprimers. He submitted phase of the proposed extension of the pure, which, on the pre-war base, was estimated to core fif2(00). He in the optimizer, owing to the present cost of labour probably cased \$30,000. The may plain would be found to the contract of the contract of the Recry had premised to contracts the largest natural while by law it is entitled to bery for any single natural work. That contribution could not exceed \$25,000. The Outputs the first production of the conand one of the congressed sateriets floats would also contribute a reasonable sum, and the Board considered that the G.S. and W. Railway Company eight also to give substantial assistance. He was quite confident that it was essential, in the interests of the disvelocities. that it was essential, in the influence of the description of the failing industry and the white region served by Valentia, that offequate per accumodation should be previded. He asked the Sub-Committee to fish should be forwarded to the British markets with

some public fund available, or which might be made available, a contribution equal to the difference beavailable, a construction equal to the conservate be-tween the pre-war estimate and the cost of herbour centres would take part in the enlargement of the

In answer to questions Mr Micks stated that he was in incour of large schemes rather than smaller What is invoir of the processing accounts assert master income, but he made it clear that the smaller schemer, within their limits of utility, were decidedly advantageous to the local people. In his view the provision of see-making plant in connection with the extension of harbour facilities at Valentia world have

Mr. Micks, in expressing his view, based upon long experience of the fishing possibilities of the Irish coast, was strongly in favour of large and generous schemes for development at Valentia, which in his scounts for development as valence, which in his judgment, would bring about an immanic increase in the quantity of fish landed, and in providing that such

Mr. Reexer Fernoments, Bellyard House, Trales, Agent to Knight of Kerry, called in; and Rusmired. Mr. Fibegreald codorsed Mr. Mack's statement, and called attention to the obstact develocity which caised in the harding boung, wan and transport of fish. He declared that does insidential satisface as the hardest presented people from the satisface of behaviors, near partly engaged in agriculture would devote their spore time to behing it flow current that oppor-tunities would be affected for harding and artifecting that the continuous and the satisface of the satisface satisface of the sati In answer to exections Mr. Pitzerrald said he was

familiar with the conditions of the cattle industry or the island, and he knew that many farmers suffered loss owing to the absence of transport faculties to one

the least possible delay

very their stock to Calutureen fair, and the difficulties way their store to communeer har, and use omnounce cutatled in issumporting building materials and other goods from the mainhand were very great. The popu-lation of the island was about 2,000, embracing 500 The witness handed in a raport, duted 9th July, 1200, of Str John Hawkehaw, C.E., on the capabilities of Valontia Harbour as a dathon for immaallande packeds and as a harbour of refuge.

Mr. P. J. O'Sura, Chairman, Calumiveen Rural District Council, and ex-officio member of Kerry Council, called in; and Remained.

Mr O'Shea urged that a substantial great should Mr O'Shea suped that a calestatial grant should be made for the development of Valenta Harbour in accordance with the joinst silmitted by Mr. Mocket He actionated Blast the Kerry Courty Council of the American State of the State of the Am

ing and transport. He stated that 20,363 boxes w ing the trainpore. He stated that \$0,500 score were forwarded in the half-year ended \$1st July last. The value of those borns was roughly \$250,000. The Schury gave constant earlierment to 1,400 persons in the Valentia district. During the certing season 1,000 handle were comployed in the earling sheds. It was his experience that beats from Balliumore and other parts had frequently to leave without loading their catches

16 September 1918.] Mr. Heary

Mr. Mitmarz J. Hnaty, Fish Buyer, Cabireteen, Co. Karry, called in; and Examined Mr. Healy endorsed the evidence given by the greboxes and see were provided, the ice being secured bosse and he were previous, the los using some free Deblin and Bellast, and sometimes from Knock-long, but owing to the long railway journey it fre-quently reached the fishing centre in a very reduced who deling industry in the district, and gave instances in which fith were thrown into the sea became faceli-

ties for buxing, some, and transporting were not available. He explained the consumptances under which

Mr W. J. Lenne, Fish Boyer, Cohireveen, Co. Kerry, called in ; and Examined Mr Laslie confirmed the evidence given by provious

not, in the main, conform to the general plan outlined by Mr. Hicks. He stated that the fresh thining trade suffered a considerable loss owing to defective trans-My Lealis commune the wrapence given by proving utinesses, and emphasized the triggest measurity for an extended part, with more inequate makeny accom-modation, as set forth in the plans submitted by Mr. as extended part, with more usequates ransway accom-modatine, as at forth in the plans submitted by Mr. Holes 16 wish he was confident that English-transfers small flak in Kerry switers if Valentia Hardour were equipped to receive their fab. He positivel can that the present accommodation was builty madequate, and a proposed accommodation was builty madequate, and fabruran would have any proofeed whitey which did shown as well as the proofeed whitey which did part facilities. Cursug had to be resorted to rather than tending the fish fresh directly to the English market. He was confident that with the improvement to the harbour there would be a larger outcot of fish, in better condition, as a factor in the food mecessities of the United Kingdom.

Mr. O'Suzzavan, Cattle Dealer, Valentia Island, called in ; and Examined.

Mr. O'Sullivan gave evidence as to the want of faci and other fairs in Kerry. Apart from the limited Mr. O'Sullivan gave expected as to the want or neathers for the transport of cattle freet. Valuatian below to fasts on the manihand. He and that farm were frequently last because of the fact that cattle has to be transported in row-bests instead of by some medium. ditions under which they had to be conveyed to the

Reverend Witanux Kneys, P.P., Valentia Island, called in and Examined.

Beverend William Kenne made a general state-improvements on the lines contained in the plans of ment confirmatory of the evidence of the provious witnesses, and strongly triped the necessary for the harbour (This concluded the Sitting)

> NINTH PUBLIC SITTING: MONDAY, 1608 SEPTEMBER, 1918. At the URBAN COINCIL OFFICE TRAKER at 1.30 nm. VENTERS PRESENT :

Colonel John Gretten, M P. Mr. William Field, M P. Mr. W. A. Lindsey, M.P.

Mr. Matthew Keating, M P. Mr. Walter Hudson, M.P. Mr. P. J. Harren.

Mr. P. J. Harrow acted as Scortara. SUS ARTHUR SHIELEY BENN, M.P., OF THE CRAPS.

(Norman I On the 5th of last month the House of Commons appointed a Solici Committee for the purfor transport within the United Kingdom to secure

Committee appointed a sub-committoe, of which are meashers, to investigate and report upon facilities for transport effected by the parts and causes of fre-land; to make suggestions for their equipment and intui; to make suggestions for their equipment and development, and to their such places as they may con-sider necessary for this purpose. We shall be glad to hear any evidence you may wish to give us in refernce to the transport facilities in this district

Statement by Mr. Thomas Hudgarn, Subsitor to the Trains and Fern Harbour Commissioners Not Regged II sudeption just thus as hunted and 1-to 000 infects of during you for your just. In all 1-to 100 infects of during you far yet just. In the county of Keep 1, the leading to the leading to the county of Keep 1, the leading to the county of Keep 1, the leading to t Mr. Huggerd | I understand your time as limited

Pror was constructed under the proximum of the Trale-and Fenst Per and Harbert Order, 1993, at a cost of 208,000 Thus sum of 208,000 was guaranteed by fire baseness of the county and the town of Trales. It was borrowed from the Communications of Public Works. was burneed from the Germansaries of Phills Warks. In Ireland, on we rapposed by a payment of an analysis of the state of 16 September 1918.]

Mr. Huggard-continued. 150 it. longer. The maney, however, was found to be monthcome, and it became necessary to after the plans and shorten the prev and cortail the hashest accom-medation. In this the harbour and works originally contemplated by the Herbour Bould and the G

of the part. The taffic of the part at Famt developed to an extent which far exceeded the original estimates of the precioies. The imports grow from 27/22 tons to 103,365 seen.

1862. What was the period !-- 1885 to 1915. It was originally intended to have berthage accommendation along the main pure for two large giain or finish vessess drawing 20 it. of water. The shortening of the vestors drawing \$6\$ it, of water, The shorteaung of the pure, Saleces materies, full burding to on only \$8\$ man, saleces materies, full burding to on only \$8\$ manile water. If a pinn weed and a funder seal man per, then there is no would be further seal to be a seal of the salecest bloomship, Oxygony's reseat, which may arrare, and something Oxygony's reseat, which may arrare and seal rail facilities as sor only in the first because will be seal rail facilities as seared to only 700 may or day, for a part of the part question of whether it would be visor to longhine the must pure by adding the 159 ft or oliginally windreds or exhibiting quay wall. "B." and this have arrived at more under II addings to the extra brethings afforded at quay wall. "B." the new work so con-strained work and shows one action are of premat for streamly work and shows one action are of premat for like of task to be placed on the pire, which is at pre-sent nature and congested. It would have seen first the second of elevators, and stores for come of cal-ant storens come for insher. The Historia Boost, by and storage scene for timber. The Hardonz Rooml, by reason of this chattings of herbidgs, here rever been able to develop the export of earlie tinde. The Board of Kerry to provide vased as Farsi, respectioning that time is need the quick temport of eatile from fitts as Kerry and the serroenting distorts, and plenty of things would be willing its oul and accept that tradic of the words of the contract of the contract of the things would be willing to and and accept that tradic things would be willing to and an accept that tradic this new work at any wall 2 The would craigle this bethlags to be found and this important industry descripted. The genus tinde, the cert back, the instituoped. The grain trade, the coel trade, the timber and the cattle trade could all be increased and trade, and the cuttle trace comm and be arranged que-developed, and there would be attill accommodation for the Linevick Scarnship Company's vessels or any cascal vessels entering the harbour. The harbour of of Kerry and into parts of the counties of Lanerick of Kerry and into parts of the counties of Lanerick and Cirk. The ratepayers of Kerry have made vast efforts in constructing and guaranteeing all the raileffects in construction; and guarantiering all the rail-way veits mentioned in the actionness. From por-is the freeler of all three limes for a large protoc of quantity a respect and relate to the railways and to the railwayser. It is estimated that the new vorks at quay vall "8" "4" fill cost 250,000. The engines will any vall "8" "4" fill cost 250,000. The engines will a quay vall "8" at 100 cost 250,000. The engines will a person, having regord to the vast efforts made by the Centraly of Kerry, task they are entitled to a free grant of 250,000 to carry out the required works at at quey vall "8" "8" be addition to this free grant a ct quey vall "8" "8" be addition to this free grant a

Mr. Mayance Kritzenes, J.P., Chaleman, Traine and Funit Harbour Commissioners, called in; and

1870 We would be glad to get some further information from you in reference to the harbour at Ferit I —I would like to state in connection with the exist energy of its pet ten on grain vessels coming to Fent, that that was fixed by the shipowners owing to the hot that was were only able to discharge 350 tens a ness men we were only able to discourse 350 tens a day. Boats of 3,600 tens have to remain ten days in our neet to discharge, and that is why the shippeeness

Mr House-continued sum of £10,000 would be required to construct a new

sum of £10,000 would be required to construct a new line of rath, and angular and 6c over thors and cirra-tum. If a proposed to ask the Government to advance the construction of £10,000 by my of loss. The security of the loss would be amply secured by the does of the poin—the consent of the Courty Const-dered the consent of the Courty Constof its, per fore which at present is paid to shippeness in oncean of the rates of the United Kingdom. The account has to be paid at Fent by reason of our sky rate of discharge, namely, 350 tons pur day for one ship, against about 250 to 500 tons, at other peris ship, against about 250 to 500 tons, at other peris

Now, sir, I propose to examine Mr. Kelleker, chap-man of the Herbour Board. 1863. (To Mr. Happerd.) You may do that after wards, but I would like to ask you seem quantums?...

1864. When the pier was undertaken, there were suggestions for extending it by 150 feet !- Yes, that would bring it to the original length contemplated

wards bring it so the original length contemplated by the promotives.

1866. Would that give you sufficient length to handle length on the property of the pro fourth and useful.

Mr Mourie; Kellcher, The cost would be about

1807. (To Mr. Hungard.) You propose to borrow the \$10,000 which would be required to construct the new tors from the Government)—Yes, sir.

1963. You state, "The interest on this loan—the
£10,000—would in effect be covered by the extra
frught of in per ten, which at present in past to sing
overers in access of the mass of the United Kingden "! owners in scores or the ghost or the chinical angions:

"Yes In the case of shape coming into Fentl, we have to pay shippowers a lo a ton more than it pad at other pects, by reason of the fact that we can only discharge 350 tens a day instead of 600 tens a day, and that is because they are only two longs of railway and that is because they are only two longs of railway. and that is because may are only two have a reason, on the part, and the railway cannot handle more than 350 tens a day. If we had a third line and more riceage we could turn out 650 tens a day from a grain vessel, and we would then be related from this extra vessel, and we would then be relatered from; this came, in a too, wheth is a bug them, and falls out the farmers and producers. We would get the old shall be would be the control of the

an effort not made by any other county.

1859 We quite realise that, and quite appreciate what Kerry has done. What I want to get at in-Li than 22 feet of water, being ordered to Trailee "-They wen't come unless they get the extra 1s a ton, course

to the fact that 500 tons of cargo a day cannot be dis-Chairman-continued. take to discharge faster than 360 tons a day. If the

improvements we suggest were carried out improvements we engagest were carried one we would have a return in the shape of storage. We have no recommendation of the shape of storage. We have no recommendate the storage of the carried by a top on the merchants multi-put have not rid of this lean at 201,000 which you required—We would have to pay a shifting extra does on make until that is clear. My KWILDIGER J.P.

Columni Gratien. 1872 You would not propose to charge it for coal

1875 Grain only !- Yes. That would provide

gl.000 a year. (Springer, 1874 What I want to some evidence as to the difference in the cost of extending the pect 150 look and putting this proposed alteration to quay wall "B"? "The addition of the 150 feet would deprive us of the We could only got storage at the other

storage. 1973. Mr. Helleher, as a large treder and chalman of the Harbour Beard, you are unimastly consceled ath the working of the piec and are aware of the calms of the prepared quay wall.—Yes. The care thing I wish to membron specially is the deep looding bertla.

inner ourge and a goan vessel aspecter, and task there is complete continues. The capacity for dis-clarging or handling by the radievy is only 500 tons a day. We think that that should be multiplied by three. The proposed works at quay mall "B" would 1876. If you had a 920 feet wharf, and you had two 1876. If you had a 920 feet white, man you grain steamers in have you sufficient railroad accommodation to handle thom!—You with the increased modulion to handle thom!—You with the land With

passency unsees man we could may on thus land. With the extension we should got on a thord rail, but that me at present almost impossible, owing to the width of the pore. We could not get the third rail on the per proper—is it has narrow. 1877 You would have to put it on piles !-- Yes, or something extending three or four feet cutaids the

1878. The proposed work at quay wall "B" would give you about a statute acre of thereased space !- Yes,

Chairman 1879. Has any effort been mode to extend the piec since the war!—No. The last assistance we get from the Government was the resowing of the old reading, which is now a two one; inside about five years ago: but the amount gives was too low. With a hitle further two saré amount gives was too sov. With a near further expenditure we could have concrete piles. It was there been very much better if we could have get the concrete piles. I believe \$2,000 extra would have

done that

disce that:

1891. Three we assistent cotains the poet — Yee,
1891. Here you say estimate as so the length of
the poet of the poet of the poet of the poet of the
expanse which assiste the poet of the poet of the
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here you known the considering of assistence of
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to 400 tons a day, to sure us from this penalty of a stilling a ton on grain, but failed. 1383. It applies only to the grain Yes. It does not apply to anything else, and thus matter of the not apply to anything else, and thus matter of the retire charge was arranged between the grain important and the Shipping Corporation. We look on it as a

and the obspring Corporation. We look on it as a great hardship, but there is no remedy so far. 1894. Except to get the featibles that will give a suf-fecent discharge !—Yes 1885. Is your import trude increasing t-Yes, it was necessing before the war. 1865. Since the war laws are closed completely. The Altronality has allowed no foreign beats to Fenit

1887. Have you not had some gram ships 1-Not for the last twelve months. The port is entirely closed, exceed that the Lamerok Stanziship Company's best

Colonel Gretters. 1888 Where does the railway company's property

end and the Harbour Communicary property com-monos !-- Almost at the station; but the malway compager have running powers over our property, of

1999 Who is responsible for the working of the traffic in the farbour 5.—The Great Southern and Western Rathway Company. We sumply work the

1890. The reflway company laid the rails on your property !--You. 1991 Are they prepared to lay cates lines?—We may have to do it. The chances are that they will masts us, because it will save them a great deal of wagon room; but we had not time to consult them.

1992. We have full particulars about Fenri, but we come here to not if there were any farther saggestions? -We have not our suggestions before you

Colonel Gretten.

1893 Is there any reason to enthupate any difficulty in obtaining the co-operation of the railway company? in obtaining the co-operation of the national company?

—So: I wint they will do what is fair in the matter.

The Great Southern and West and the state of the matter of the control of th so could make a claim on them. We suggested to 1994 You are not prepared to give any decided opinion as to the position of the milway company in reference to the laying of the taffal—No, I am not

Mr. Horses. 1896. You are chairman of the Harbour Commis-NOTE IN ANY OF CHARGE TO ANY OF THE PROPERTY OF THE STATE OF THE STATE

or armonim-ten.

1896. Is it year opinion that the divelopment of your highest at Feat on the lines indicated in the statement made by your addition would tend to the eccencied existingment of this part of Freland 1—Yes, positively. I am quite orchain of that.

positively. I am quate osciolar of that,

1897 Do you should the productive energy of this
part of Ireland would be stimulated if that harbour
were neade the perfect model of tenaport you say
part—Yes R to go the way to work the
totalis of this is not to say the bribers is weeked at
present, both it would be if the \$20,000 we require
at present, but it would be if the \$20,000 we require

1888 Are you giving expression to the views of the trade newborn. The majority of the members of the Harboar Board are connected with toals 1899 What about the farming community's-They 1839 What about the farming community—would not see the adventage of the harbour to their salves unless it were explained to them. Dealers and farmers are districted of having a cettle trade from Feath, but we could not attempt that unless the UF-Feath, but we could not attempt that unless the UF-Feath, but we could not attempt that maless the UF-Feath, but we could not attempt that maless the UF-Feath, but we could not attempt that maless the UF-Feath, but we could not attempt that maless the UF-Feath and would be plenty of room for lairages on the pier.

Chairman

1900. You are short of cranes I—No, we have ample crantes. We have aix cranes, which are quite enough 1900. For what traffic you have got at the moment! —Yes, and fee more traffic. We are amply supplied 1800. If you had two gram ships in and year himself atsame have you got anticient accommoda-tion?—The railway wagons are what limit us. We

can only do 900 tons a day, and the owner usually 1963. But would you not have more malway wagons down !-- H we had a third red line we could increase 1864. Is it your intention to have a third line?— Yes, and then we could double our output. Sec. Ve-1905. Yest

Mr Rosen McCarrey, Horbour Master, Feart, called in ; and Exemined. Cherrien.

1905. You say harbour master at Fund!-Yes, ar-1866. And see macrous masour at semi-rang or, for the past thrity years. In consequence of the shartening of the main pier by 150 fs. there is only is length of 799 along the main pier. All of this is not deep water. There is room for one large grain vessel

hampered, and shipswarm have to be paif in a ton more than at any other United Kugdien port on account of the elev discharge. The kest remedy would second of the electrons of unitarity. The hest remedy would be the construction of the sew proposed works at guay well. "B" The extra space is very hally re-quired, and the extra beethage would be irraliable. At the process time guay well. "B" is practically assess on account of the rock betterg in frest of its usaless on account of the rock bettern in breat of it and the small depth of water, which is only altert 500 ft. The trade of the port has been steedily do. 100 ft. The trade of the port has been steedily do. 100 ft. The trade of the port has been steedily do. 100 ft. The trade of the most (in 1865) per year to 1523 and after the most, when trade review, there are great and after the most, when trade review, there are great personalities for Fernii Harbour to it goes a far elastee of weeking. The piece milmay and tradit is weeked by the Orient Suchern and Western Balavay Company. by the Greek Southira and Western Raulway Company, who are willing to develop the traffic, has they are greatly hampered for want of room and proper facili-ties. At possession or reseal can unload 300 tens a day so like maximum. Our dawkange scale on the literarchical charter party scheme is 800 tens for the control of the control of the control of the of this, and are seen to the control of this, and the control of the c ments and obtain the lowest rates to discharge 600 tone of grain per day. This could only be done by one structure, a third line of raths and creeking storage special for grain. As regards want of storage, week has often to be suspended in consequence of bad weather This could be avoided if stores were created weather Into could be assessed in soons with the new The cattle trade could be also developed if the new work at quay wall "B" is corried out 1906. Are you limited to 22 ft. of water?—Yes, at

resent. 1907 Can you get more by dredging?—Not in the 1909 Can you at quay wall "B" "-Yes 1909 What would you expect to get them!--About

1910 At low water!—Yes. At present we cannot get more then 22 is, on account of the foundation of get more then 22 H. on account of the foundation of the pite, beaman the concerte blocks project out at the bottom. We cannot go believ that 'The exten-sion of the whatcher would be no good to us, as only our line of railway would be working. 1911. Do you know if any estimate has been made as to the length of time of it would take to make the as to the things or time it would take or many one extension 1—d cannot say—probably about a year, I suppose It much the best Hr. G. A. E. Hishes, Engineer to the Harbour Bourd I all depends on getting the material.

Mr Hecken I Tee.
Witness I The material would not be much wunle be all rock. It is within twenty yards of us.

1962 Coment would be difficult to get !- Yes

Chairman

1930 You are a member of the Trales and Fent Harbour Board 1—Yes, siz. for nearly twenty years 1933. You thin see millers and general merchants?

1932. You largely deal in theber 1-We do. Of course we have got nothing in that way for the last Course we many produce do you wish to give us in re-1935. What evidence do you wish to give us in re-ference to the horbour?—Feait pier and harbour were recutracted in the 'eighties, and until 1917 enjoyed a

Mr Honson

1913 Ate there say fish leaded at Fond now at all ! 1233 As there may fish leaded at Ferra new at all 1. No. str., are a precent
1204. What sert of carlet his may be 1204. What sert of carlet his him? we not have a feel of softle experied, but his him? we have no starping them. The pure is too nation for any proper new house. The pure is too nation for any proper in the week. There is no necessition to the pure of the pure is not not be approximately and the pure of the pure is and you could not do sayshing in the piles. There is nearly grown to store any.

[Continued.

Colonel Grollen 1915 With regard to the hank that is the obstacle to lengthening the part, ought that he easily moved :— It could be dredged, but it would not help the matter.

5916. Any scheme for lengthering the pier would not be an advantage 5—No. The position would be just the same if you lengthened the pier.

1967. You would not have any more accommodution?-No.

1918 Do resuels chartered for Fount find a only anchorage when the pier space is occupied !-- No, are they would have to go cut about half a mile for a safe anchorage. There is plenty of water, but the channel

191R. Is there safe anchorage for them in the neighbourhood [-In the summer time, but not m the winter.
1900 Where is the sale anchorage in the winter. Where do the vessels lie in the had weather

when the pour space to occupied?-One would lie outside the other. side the orner.

1982 She would be cutside the pior, muting for the other vessel to clear h-Nes. They often have to do that in bud weather. There is no other remedy for

this is a second of the matter of the pirt of the matter of th the coset thing
1934. The wagons cannot go under your present
transat—No. If we have southerly gales in the winter

three work is steeped.

1885. How is this going to be prevented 1. This will like the work in steeped.

1885. How is that going to be prevented 1. This will prevent the whole shing. This is an island, and it sholten the whole place. The wind breaks right over the pure, whereas here it is quite thelikeed. There

over the near, whereas here at is quite shaltered. There is an ashard and it shalters the place.

1965. Weeld it is 20,000 be sufficient to corry out the suprovements at the port—1 whink to Carry out the suprovements at the port—1 whink to Mr. Hickmen I Tis only \$50 ft. (He explained the position at the proposed argonorements on the map). Without I Tis extracted does not holide surphing in the object of store. Colonal Gretton

1997. This \$30,000 is that a pre-war estimate !-Perhaps it would be suitable for the present time. It is practically double the pre-war estimate Mr. Hannen. 1928 The original estimates were for £10,000 and

£5,000 1-Yes, something like that. 1929 Is there any other point you would like to mention !—I think everything also was mentioned by Mr. Kellahor.

Mr. WELLER H. He-Cowen, Managing Director of Bobert McCowen and Sons, Ltd., Mallers and General Merchants, and Member of Trales and Fenit Harbour Board, called in; and Examined

Chairman-continued. prospersons time. Owing to the increase in size of prosperous time— using to the increase in one of ships some changes are now necessary for waged dis-change and handing of carpose. This will be more necessary after the war, as the stapping size of ships document and the control of the second of the person time, at the many part there is only be than per or on large grain absence on the many part there is only be than for one large grain absence and one ensul shap, and when these betthe are absence and one ensul shap, and when these betthe are second or the weekly often in the second of the weekly often in the weakly often in the weakly often in the weakly often in the weakly often in the want to be the weakly often in the weakly of th of facilities for rapid discharge of steamers the nort is

. [Continued.

possissed to the extent of 1s. por ton fenglyt over the other Linth ports. We cannot now discharge necessaries, and the state of the control of the possing ports of Desira and Essay of the possing ports of Desira and Tays were quite engined to find such an ap-to-duck poor, so well addressed and as a sharmably protected time arbitraries. infanted and so admirably protected from selections are tarked soming to the formation of the outer box. They gave no to understand that much a harbour as Penni ought to be considerably developed 10st, will like of sensors of the pure; Europe produces weeking the continuous weeking of the pure of the continuous weeking of the secution of a ruinable observe or grantly adjuncted to the rails, to be utilized when there would be a thoratego of vagons. These impresentations, dorried out, would be an immune of variage, and, in d current out, would be an immune savelitage, and, in my opinion, absolutely necessary for the increased scaffic which is bound to come after the war. The reaffic which is bound to come after the war. The yearly matalments of the loan will be paid off in a

sould be a shortege of wagons.

leng as increes in tattle. We shap bound for Familbook bear send dernet shar var growing what a striking part it it. Since the jute was built in all your bear attenting or institute of the strike of the strike and the strike and the strike of the strike 1960. You are agent for the Limerick Steamskip Company 5—You are The Limerick Steamskip Company have as zonnel times, a weekly entry itemers service between Livrarpool and Fentt and

Changing size in semant more, a world, could consider the control and Fixed Fi seey would unsombtedly samer damage. On this secount, when a large corn sleamer of about 350 ft in length a herthed at the end of the main pier, an average seed steamer, say about 270 ft. in length, average smod steamer, say anous ever it. We some, is berthed mande the corn steamer at the main pier or at gasy wall "B," would have to take the ground at ce at quay wall "B," would have to take the ground at live woter, and our company exist face their the rais of allowing that to occur. When, therefore, such a steamer of corn samuer in at the ten to bord into the state of corn samuer in at the corn to the state of the large of the state of the corn to the state of the value part, and there discharge the cargons into larges. Such work is only curred out with prest difficulty and nancer of througe to adopt and beginner. There is no pretendent from the prevailing south well-and southeast with during wither pantles, and the offihavy seas as a consequence of sook winds, and on a course, it was found that work but fo he abordened for those reasons, which meant that the aborate was surroundy delayed, and at times, when the field we surround the surround of the course of the Emercia and there discharged and valled to Traine, or so leaded into the stemace, meantaining had to call at Freit to discharge. When the had to discharge in this memor Ch., at the south side of the

races of houses were crected, and more were in rourse of crection up to the outbreak of the war. Trakes is one of the only provinced towns in Ireland whith has

ducet from Arraptine for jour fages of mallers, who 1934 Would the proposed extension suit the busi-

nowed the proposed extension will the top-ness keep other than geant—Yes. It would be a great advantage, because at present we cannot handle all engoes that come in. I remember having a thousand tone of grain yfied on the pire for west of tracks and tors of grain pixed on the part for want of two a accommodation. A couple of yours ago—just before the wal—we had a stormer with a couple of tireber, and she challed with another and had to go to Gerk.
1935. You could not headle the two together I—No. 1956. That was deals?-Yes. She had to take about

1507. You were going to discharge her here!—Our carge was in first and had the berth. This other carge came in and had to be cataled our ship, and eventually had to go years to care demorrage. I think a large sum has also to be paid for diverting hea-1958 So that you have not got accommodation even for your present traffic !—No.

Mr. Housen 1930. That is to say, if normal conditions were to be sumed after the way !-- I think it will be much

Mr James O'Kentru, Agent, Lemerick Steamshop Company, Troles, called in; and Exemined.

main pier) none of the cargo could be worked ashers. It is very seldom than sufficient barges are available to hit all the cargo, and even in crise where the number of bargup available was sufficient to accommodate all the cargo to be lainfed at Fertit, it would be most instation, which is a considerable distance level the catala boxin. Our dense is to work such as apparatus method of heading goods if youthle Our small cleanarse can be documented in the bettle before that where large vestels both and they compared to the property of the compared by the compared by many transfer of the compared by the compared by such cases we have to adopt the some northed of economicchiang our waller weeks as the largest reas-as the boths along easy walls." A." and "B." are not suitable fire exceeding the property of the compared by matching the control of the compared to the compared to the suitable fire exceeding the compared to the compared to the suitable fire exceeding the compared to t have on the strices measured are seen collabor drain. The only other alternative left to its when the man peer is compared, in the case of our small stearies, is to go alongside quay wall "B" at half-fixed tale and work those until half-she take, when the vessel would were those still half-shi lide, when the season wald, here to leave the beeft to arrive it shiling the protent. Thus weald leave only when it as from to write carpo-calence, and in the interesting are here; to ship could be a subpeted the ourse, aspectally when litting arrives or pittered which traffic can only be accom-modated at this borth. It is quite apparent becomes additionable and office-ship the description of the substitution of the contract of the contract to the additionable and office-ship the overant to be the contend with it the item to be present about a contract to the first The present about a counter take to us, because, as already explained, we cannot make to us, because, as already explained, we cannot make to use the best about a counter take where the only sense of the takes the contract to the proper deem at commendation arises from the following facts and the contract to the contract to the counter takes the contract to the nion to its accessed, to more auditored to the control of the available in greater than the capacity of the available in 2 16 September 4918 l

Mr. O'KERPPE

Chairman—continued barges, and cargo has accordingly to be in

being an open harmonised in the mound at permission of the permission of the control of the con-

The proposal made by the Harbour Board, if carried

October - Continued - Continue

service to the country of Refry that our set of consistent to the country of Refry that our set of the should be entered for and perper includes provided at Fruit Prec.

We therefore respectively beg to soft that the Servitor our limit "transportation (frictical) would recommend to include "transportation (frictical) would recommend to provide the necessary improvement proposed on the sub-dimension will not during the proposed of the Sub-Dimension will find during the proposed of the sub-dimension will not during the the harbour. From the originate we have beauty

the farcour. From our eveneste we have the actiontime it would be a great advantage to have the attension. Mr. MeCover.] And the granty stores. Chairman-J Taxt is a matter we would have suching to do with. It is a matter for the local people (The Shiften then conductd)

TENTH PUBLIC SITTING: MONDAY, 16rm SEPTEMBER, 1918, At Fornes, at T p.m.

NUMBER PRODUCT:

Colonel John Gretton, M.P. Mr. William Field, M.P. Mr. W. A. Lindsay, M.P. Mr. Matthew Kening, M.P. Mr. Walter Hodson, M.P. Mr. P. J. Hagnon,

Mr. P. J. Harring acted as Secretary Sen ABYHUR SHIRLEY BENN, M.P., IN THE CHAIR.

The Right Hox. Lord Movemons, K.P., Chairman of the Fornes Harbour Trustees, called in; and
Chairman. Chairman.—continued.

1981. You were allowing extrained before on an extra e

1990 cent; Charreau—centimed, consider in 1991 cent; the the Trainous west should be stand to the irrain does well as the trainous west should be stand to the print. This well are the trainous west of 1,000 and constrained part of 1,000 and 1,000

16 September 1918.] The Right Hon. Lord MONTEAGLE, K.P.

Georgian-continued ward of the exusing pare, corrying the same to deep estimated cost of 25,000 (5) his treasing plan Gerti-a lean of 27,000 to carry out works on Ser John Gerti-rab's lines, but in consequence of the wire this loan para mane, off: in consequence of an earlier to consequence within \$4,900, the balence of \$2,000 being lent by myself, say excess to be provided out of maces. (6) These consoled works have considerably exceeded the

good, no promo the provided seed arrained. On execution, and it may be executed out of the control condition. They will, see the condition of the condition of

the important grain trade will find at way to Fornes (W) I enclose two schedules (b) showing the tanks of opportunities and of their illusted times, and pricely the claim they now notic for further searchance from the State. As regards traffit, it will be observed that the total has mercased from 7,464 tons in 1890 to 21,449 the dutal non-measured time, 7444 tons in 1800 to 12, 504 tons in 1800 tons in 1

Mr JERDMAN O'COUNDE, Trustee of Foynes Harbour, called in; and Examined Charmes-continued

1943. We shall be glad to hear whatever o have to offer us mo connection with Forgons Hashour, or which I understand you are trusted—Yes. In 1979 or American Hinr on passage from Leverpool 69, are York put into the Shannon for shador. She should be analysing in the critismose to Poynes Harbour, and the prices diverses the had sestanted frees a storm was saide good in twelve days whilst the was lying them, by a firm of also builders from Linarrick. In the summer of 1822 the a.e. "Seamlinewin," Allan Line, made two smilings from Seyases to America and tools in emigrants She subnected in the Equipmental She subneced in the Seyase to the season of the The emigrants were put on board by a small density from Seyase Fire Hood, but the great drawback at that time was the want of a deep water pier, for the tender could only come alonguée at high water. Thus szeremzolásian is nore haspily supplied by die letal, traubos szixinding. the pase to a deop-waiter berth, where vessah dature in Great quantities of nachorel were delevered all Spreas for resistant to the years as follows, 1879, 1860, 1865, 1862, 1885, and 1884. It was com-tracted to the state of the second state of the com-traction of the second state of the second state of the top of the second state of second state of the second state of second state of the second state of second second state second state second state second second state second state second second state second state second s (The Sitting then concluded.)

RLEVENTH PUBLIC SITTING - TUESDAY, 17vn SEPTEMBER, 1918,

At CHARGES OF COMMERCE, LIBERICE, at 11.0 a.m.

NEWSTRE PROCESS.

Mr Walter Hudson, M P. Mr. Matthew Keating, M.P. Mr. P. J. Harmon.

M. W. A. Lindsey, M.P. Mr. P. J. Hannor auted as Surelery. SEE ARTHUR SHIELEY BENN, M.P., IN THE CHAIR

Chairman.] I had better state why we are here: I expect you also aware, the Solvet Committee was only appointed on the left of Angust last by the House of committee was only appointed on the left of angust last by the House of committee what sleps. applicated on the 3ch of Angust lost by the House of Commons for the purpose of countering what strip, if any, it is desirable to take to develop and impreve the internal featilities for treatport within the Unried Kingdom, to secure discrete supervisor, and co-cellusation, and to excert this such developments and monosymuta should be subquite and mittakle to much monosymuta should be subquite and mittakle to make seems. Tast Committee met ser sie next tune ell lise 3th August, sad it was reggested to these that it would be well to appear a Sals-Committee to come over to leskingd and get posted on the condition of the ports

Colonel John Gretton, M.P.

My William Field, M.P.

and cataly pract to the mostling of the Main Committee on the 1st of our sensition. On the Bild Angelet, the Silp-Committee value on mentaged and the Silp-Committee value on mentaged and report upon a contractive for the same of the silp-Committee of the silp-Committee of the silp-Committee and season in the silp-Committee and that we would be sight in people who wanted to pre-freewest assumpt, not the most of Mercana and that we would be sight in people who wanted to pre-freewest assumpt, not the silp-Committee and that we would be sight in people who wanted to pre-freewest assumpt, to the silp-Committee and that we would be sight in people who wanted to pre-freewest assumpt, to the silp-Committee and that we would be sight in people who wanted to pre-freewest assumpt, the silp-Committee and and canals proor to the meeting of the Main Commett

Mr. Power

statement to Bublin as non as possible sites the 2nd of this menth, so that when the Sub-Committee set in Dubin they could arrange what their route would be, of places we should read, and if there are other places that should be visited it is because or where not received information. From them. We have get to frauch up and have a report saidly to get before our Main Con-mittee when it meets us the list of next mention. Mr. Field, I think the observations of to which the Chairman refers appointed in 3G papers.

Charrmon | Yes, all over Ireland: We are annue to get full automation as to what saw vessels you can to get full information as to what size voteds you can take up to Lamitch, what sort of discharge you can take up to Lamitch, what sort of discharge you can give, if explain, can be done to improve the port as that higher was to be taken, if the ratherys are so placed don't quick takes can be given for dis-charge and poof facilities for distribution. We show want to find out what your communication is with the Careed Care of the Caree Care

Mr J F. Power, Secretary, Limerick Harbour Board . Examined.

Chairman 1983. I understand, Mr. Power, you me Secretary to the Limerick Harbour Commissioners — Yos, an Vessels carrying 6,000 to 7,000 tons of our or handled in this port. 1946. On what draught of water 1—At ordinary high water, 22 feet. In cases where vessels arrive draining these tokes they can be lightened some 16 miles down these todas they can be highly and seems to makes down the river where they can like achieve about—at Bay Castle. Coming on a spring side drawing 22 feet, they could be deviced timest. Those are insuffice for highly-ning these vessels. These is a steam cleasor and a surjective by proceed down the river, and generally it to table but to come right springing of the vessel to table but to come right springing of the vessel to table but to come right springing of the vessel to table but to come right spring. The hardway crea-m resident of course right spring. The hardway creaam speaking of cargoes of grain. The harbour con-sists of a finating dock capable of providing accommeds. sees of a Hibbing ucux caption or provinting secondistics. then for several large visuals with shed accommodition. The sers of the Secting deck is 7g access, and the length of the south sade (30) feet, must 700 feet, and the west 655 feet. These as a dity dock 428 feet long, where vasuals can be overhandled and required, and there is

vessels cox be overhanded and reparted, and there is a line of quary with acts butth for resects to the or the ground at low water. With regord to the port the ground at low water. With regord to the port charge of gram. It can head to the clark the discount of the port of the port of the contract of quiys and tidal barths.

1946. Where they lie agreemd !—Yes. The length of quays is about 5,000 feet, and we have three emans, bets, worked by hand, and there is one electrical crame being constructed and nearly familied for handling cost.

1947. In that a travelling cannot—Yes.

1947. In that a travelling cannot—Xes, that is the old. Of converse to the converse of the converse o alsa Of course, we have no railway down yet.

1949. We will come to that in a mixing be a fall the day dock of 428 feet we have over local block 369.

int any over a 420 set we have over seel block 350 lest, and the width of the entrance is 45 feet 11 inshes, and there are over 17 feet on codinary spring tide on the sill. The graving deck is down here on the map. the sill. The graving dock is down here on the map.

1950. You have to go into the finaling dock to get into
is i-Yes, you have. There are nearly 3 acres available for sheds. Incre tre nearly 8 acres avail-1951. You spoke of the clevators for the discharge of grain !— Yes 1932 After you have dusharged, how do you handle the goods!—The curgo is discharged right into the 1985 And what is the delivery from the warehouses?

—By sucks. The grain is filled into sucks and carted to the rail or mill:

1954. How far !- The railway would be about a mile. Chairman

1855 You have no railroad communication with the self-No. It has been felf for a considerable time deck lanks that there should be marray communication, and the engineer has planned a proposed composite with the Patieth's Well line. It runs sway from the west end of the floating dock into the country and joins on after a length of 25 miles with the rullway system. Mr. Honnon.

1956. Which system !- The Great Southern and Western, 1987, Which branch?—The Patrick's Well Branch.

1668. Have you got no rankesy communication with your shed accommodation !-- No. The grain elevator I your shed accommodation!—No. The grain elevator installment is mixed as go in grantally owned. It is not remain the control by the other than the control by the commod by the Bullety in and Sen.

1999. In all their grain commod by the Hathers Basiel—Fan, and the domain owned by the Hathers Basiel—Fan, and the domain of the Commodation lighten remain when they require it.

1961 And then discharge into the barges!—Yes,
into a big lightes. Perhaps one discharge would be
sufficient to enable the best to come into dock. officiants we was a place to which they could go and discharps to be for alleys tracked—be, 1955 What is the distance that the nellway would have to be lengthened—below [2] miles.

1964 Has any effect been made to get that deep—1964 Has any effect been made to get that deep—1964 Has any effect been made to get that deep—1964 Has any effect been made to get that deep—1964 Has any effect here made to get the Habeter Board and the Limperic Corportion to connect the docks and query with the ratherys. But have made to view corrains generates. When the control is the control of the control connect the doors also query with our reasonable. When the hodies agreed to give certain genrantees. When the matter was pust ripe one of the wells of the floating dock fell in and it had to be rebuilt, and that meant in expenditure of £20,000 and it storped the project.

1965. Has any effect been made since the war commenced *-Lord St. Bavid's Committee varied Limerick metred—Lord St. David's Committee variet Larged, and impacted the proposal line of railway to be decis and the facilities there. They were very pleased with the second line and the facilities there. They were very pleased with the second of the second line of the proposed railroad. This van deeps I don't think its Occanitee extract our asynthmy levyed

think are thermittee carried one expaning sequen-making a report.

1996 Have you get a copy of the report that was suft to the Consustitoe 1—Yes
1807, Can you led me have st — Yes
1808 Will you sand it is to us t— Yes
1 don't know if you wish to hear a statement as to the financial position of the port.

1969 I think it would be better to hard that in

1000. Parkage you would give it to me briefly 1—Yes. I take the year 1913, the year before the war. Since the year 1913, the year before the war. Since the work of the year 1913, the year has been provided by the parkages would look on really give a work that the garees would look or really give you yet yet. In 1913 the reveals was 115,202, and the expectation, leaving out the recognised of Beens and interest, was 110,00%, which leaves a surplus of 58,502, 100,000.

1971. How much of that was interest and how much 1971. How much of that was intelest and now mone was repayment of loans !—The greater part was a eccu-mated debt which was fixed at \$2,013 per annum ly Act of Parliament in 1387. The Commissioners at that time were under the impression that we were over-paying the Treasury and the matter was taken un-

certain sum.
1972. You will let us have a statement!—You. In 1973 You will let us have a statement!—Yes. It 1973 464 receives arrived in the port, proposenting a not registered tennage of 199,285 tons and, receiving a carge 500,000 iccs. We have reduced our inselect-zess iron \$22,000 in 1915 down to \$15,350. 1973 With regard to your carge of 500,000 tons, could you tell us how young stemmers and how many Ospirous-continued

salling wasteds there were !- I cannot gave you that night off. The sailing vessels would be very hitlebent & per cent. 1974. Can you let us have a statement of that and

show how much is coasting trade and how much occurgenra - Yes, 1975 Has any effort been made by the Harbour Occurrances to get the Railway Company to run a line down to the docks 1—Tes We have approached the Great Southern and Western Ballway Company

19 the deventions what the expenditure would be?—Abest 529,000—short 255,000 without taking into account the rails. It is difficult to find the cest of rails, but Mr Sheshy estimated that the total cest of the work would be short 255,000. I am speaking

Mr Hausen.

1977. Do the Harbour Communication that it would here!-Yes.

legers—Vec. 12 Mill mean quither dischange b—Yes. 12 Mill 11 would harmone the hinds of the post, and by mercesting received harmone the hinds of the post, and by mercesting the toward wastel here, and it would be to the general public devantage, because Lemench: as very superfact contracts for distribution excess the give as evedence on the parallely most line expenses of getting dooper water to the parallely and the course had give as evedence on the parallely and the course had give as evedence with the parallely and the course had consent in the wilding on tode—The engineer could do that. That is price, what would have "dist." Begin fastle, to

may is recent wat we call the "man," neigh cases, to come a channel "see all the mean the alteration of the dock. The still of the dock would have to be inverted to could that. The cuproser can give you score idea 1881. How would the divelopment of the camal sys-tem affect Lumerick—16 would by a very great advantop, and we mean to planni evidence on that point free Mr. King, steam harpe owner. He is the owner of steam baryes, on the canal, on which he has been training for ferty-suph years. He will show you the -felects of the precent system.

1982. Is there anything also that you can tell ust— An estimate as to what the rollway would carry in the shape of goods major be of no interest to your Com-mittee, because it would be only an estimate, and,

Chairman. 2000, How long have you been Engineer, Mr. Morcoy, to the Lamenta Harbour Commissioners !-

2001 You gave evidence before the Royal Commiscon on Waterways and Canals in 1906 !- Yes

2002 We have got your evidence before us new. Here you anything to add to this evidence!—No. I do not think so. T think it is just the same. In fact, the imprevented is nose necessary to-day than it was

2003. What are the defects to the canal navigation to ... In my evidence before the Royal Commission, it endeavoured to show hew communication with the Basting dock and his Shannon Navogasion Canal might be Smillituded. Communication at present, under custing conditions, it difficults, due to food water, and wait of loads grown upder two bridges at south lines as the correct in bast, i.e., at high water, when the pus-er might be the nerve easily toole At exhest times it would be minely impressibilities, in order to device when the control of the control of the control of the which has been a mine of the property of the most with which has been a mine on the property to mean with Sorting dock and the Shannon Navigotion Canal might hatch the interference me transmission terms 6885006, or shall the interfer and most couply secured to most with approval, and which is shown on this ordinance shoot. (Produced,) Thus scheme to greated a very old schoot, partly completed and then shoutbred. My suggestion was to review and complete this schools of the product of the school of the scho

boardes, the construction of the rational would so m-

1983. What is your ostmate?—At least 200,000 home of goods would be cannot see that him 1984. What would go by the cannot 1.—The percentage by the cannot would not be very much. But if the cannot would not be very much. But if the cannot were improved your would have, I abouth any.

Mr Field. 1985. The two things—the improvement of the outal and of the port of Lamerick—would help such other

and or one post of Lamontak-would nelp such other and improve the brain of the whole district. With regard to the virlway, in not \$25,000 a very large estimate for \$\frac{1}{2}\$ unles of malway \$\frac{1}{2}\$. That is to occurre

the lard also.

1995. Yet have to buy the land 1—Yes.

1995. With respect to this circul tradit, what proposition have you to put belies the Committee—The could between here and Kulther a very defective.

1997. By your blush of highest 1—Yes.

1999. Are you of opinion that it dispersed—Yes.

1999. Are you of opinion that it this large orpositive was undestined me connection with the improvament of the part is would be justified by the results!

Mortal Committee of the part of the present of the part is would be justified by the results!

Mr. Lundsay 2000. What is the jurnafiction of the Harbour Com-missioners I—The Harbour Board was created by Act of Puchament in 1867.

of Persament in 1997 1991 I meant the area of its jurisdiction !—It goes down to Kurry Head at one side and Leop Head at the other—about 60 miles 1992 Doi at always do that; because the Board of Works had centred over the Shannon at certain points?

—Only over piers at a few places. We have got com-

Colonel Gretten.

1985. What is the delay in lightening vessels 1—It might be forty-eight hears, sometimes more. On an average it would be about twenty-four hours. average it would be about twenty-four hours. 1994 Sometimen it is feety again heart—1-26. 1965. What is the longest delay—We have had about up to become three days. 1967. Have you had say longe delays—4 cannot rescaled anything longer, there may have been contained in the contained and the contai

comes garbour.

1999 Where is the canal harbour?—It is about a mile and a quarter away from the docks up the river.

Mr. H. V. Monory, B.R., M Ingt.C.R., Engineer to Limerick Harbour Commissioners, called in; and Chairmen-continued

a probable estimate of £30,590. Needless to say this 2004. Do you consider if that work were done that it would repay itself!—That is a greation that I am not in a position to asswer. I think it would be likely to pay in the fature. I do not so why it would not, but at the present mercant I count from an optimar. 2006. There is nothing further that you can say in regard to that matter beyond what appears in your ovidence before the Royal Commission 1—No, except than I think it would be desirable to complete that

2006 Is it your idea that if the scheme were carried out you could utilise the finished portion and connect the canal with the room satisfactority !-- Yes, dis-

2007. What have you to say in connection with the 2007. What here you to say in connection with the radiusty "The proposed cumraction of the poet with the radiusty system as by the construction of a short line commonsung at the south-castern corner of the feating deck, running along the southern sale of the deck and shouce constitut the Dock Road on "the loved" at or about the solid of intersection of the Dock 17 September 1918.7 Mr. Monoxy

Chairman-continued." Road with the county borough boundary, where it is thown on the ordinance may (Preduced) The line will curve round the western aids of the moccourse upf curve recing use western may of the recoccurse sum continue along the low ground on the morth ade of the Ballymologia Brier, crossing the main road at Ballymologia Briege, either on "the loved" or by caturying the line under the road as may be decided on later and still continuing its course along the low ground by the river will effect a punction with the G.S. and W. Raulway at or about the level crossing in the townland

Cheerman-continued The construction of the line will be may, neither heavy

[Continued.

Colonel Gretten

2008. Can you inform the Committee what depth of water there is between Limersek and Beigh Chatle to From 17 feet at the dock to 60 feet at Reigh Chatle. From 17 feet as one corex to our rest at Beggs cursues.

2008 is there may less depth in the channel than
17 feet 1-No, i.e., at high water, many tides.

2010. Do you know how far at a from Lemeriak
where the big steamers can, is affect at all traces?.

Stroom or exercises miss, at Beigh Castle.

Mr. Alvaro Krvo, Steam Borgo Owner, Limensk, called in ; and Boundard. Charreson. Chairman-continued

2011. You are a steam being owner weeking on the canal, I understand, for the past 48 years !- I am, siz 2013 You can tell us something about the defects in Shaumon, as you are aware. It is a small lake-seven comment, as you are sweet. It is a small lake—seven
or eight or two nudes across. Near it are the Arigna
contribute, and there are n let of numerals in the
district. For cores out of that long had you get into
a bit of canni at Dramchambo. There as a bringe that
goes over these canni. Before you go unto that, there, a figure of eight-a lot of rocks that have to be set red a ligars of eight—a let of rocks that have to be got and of. The could intitue are celly about two miles free where the present harbour is. That harbour would have to be improved. The harbour would have to be widered. It is only made for the ordinary fittle countd beat. For some elong and three see these could beat. For some elong and three same two makes of that canal and you got into Dromsleagae Longol.

2013. What draft of water can you bring on your 2013. While druin of water one year and brain on your can't boals 1—Thirty years ago I took capons of centert to Drusshambo on a fifty-ten heres, and I took of tour. If I had that boat to-day she would not bring 20 tour.

2004. What depth of water can you count on !-3 feet 5 inches or 5 feet 8 inches as as much as you can rely on. From Curnot to Killslos is a long stretch Albert Lock
2015 What size is it!—About 100 feet long by

Mr. Zeedany, 2016 It is 110 feet long !- It is not 30 or 40 feet 2010 in it is to fee ong -- it is now on or the second interest in my book.

2017. What is the width -- I suppose it would be about 20 feet wide. There is no difficulty in having plenty of water if the slute gales were properly

Osirmon. 2018. What is the draft from Carrick to Killalos !-Sex feet You can comfortably work a 100-ten barge at the present day from Kallaloe to Currick.

2009. What are the defects in the river from Killaloe to Luperick !—A great many.

los to Lumerotk — 4, great many, 2020. How many looks have you get 1—Ten looks, 2020. How many looks have you get 1—Ten looks, 2021. What is the draft of water 1—4 fact 50 mohes, mand 5 fact. That would be far the winter time 2022. Are there many bedges — Set or 5 errors. 2022. Are they sufficiently high for the restfit ?—Yes, 2023. Are they sufficiently high for the restfit ?—Yes,

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six of them should be made larger and widered. The Lough Alben but of water canal has to be re-made from sters to finish as far as Battle Bridge. 2025 Who is the authority on the Canal between Killaloe and Loneruck !—The Board of Works.

2007. Here they a representative here!-He is tre-2008. He is not present in this room !-- No Mi. J. F. Prove, Secretary to Harbour Commis-onsex.] We can ring him up if he is required Mr. Fuful.] We ought to have a statement from him, NOTACE Witness When you come down from Carrick to Tur-userbarry it is those that the Royal Canal connects Speciarry it is those that the Boyet cumit dearway with the navigation, and when you pass Athlene sai down to the Shuanon harbour, it as there that the Grand Canal connects with fair anxionation.

Cheirman. 2029. It would be a benefit to you if you had a better waterway between Killaloe and Limerick !-- Decidedly,

2000 Ton were going to may comething about the improvements required in the Fret to develop cand traffit to the Ffeeting Dock 1-Tes, are Linearist in left-hunded business without having the consilion jest-hinded Ousness without having the contain con-nected with the docks. That scheme was put before the Royal Commission for the laking up of the cause the docks, and it is the only feasible scheme. St. That is the third scheme referred to by the continues in his evidence !—Fee, sir. The only fining I we wrong is that there will be very little handway left under two of the bridges for a boat drawing 5 feet of 2038. The common dealt with that !- Yes

Mr. Field. 2033. Do I understand from your evidence that the 2005. No.1 understand from your evidence that no Autym confields and the either nimerals in that district carmet, in your judgment, be utilised to the extent that is required in the actional interest unless the whole of longermal is dealt with in the manner you the shole of this exami is dealt with its the manner you segment—The district is practically held up for want of the means of posting at it.

3354 You cannot, under existing conditions, developthe coal or other mannersh —That is so operated with any
consection; we have made have at the face of our developtions of the coal or other mannerships. 2023. Have the Board of Works co-operator with any subjections you have made t-No, six, they are quite well awage that improvements are required

2035 Four suggestion is that the canal improve-ment ought to go right down from Lough Allen to Laurenick 5—Yes. My Keeting. 2007. Would the ortgot of the Arigna raises be increased in volume if your suggestion were carried out 1.—Only from the Aragan mines would be brought to Leinesak for all leading poses, and other minestal part cut in the dustriol cell of some incredity from Looph Allen on to Tamerick for the process of the cell of the

your oridonee.

Allen on to Limerick for Englasent it supported for with made in the waterway.

(Referense.) We are very much obliged to you for

2000 Year

[Continued

Mr J J Quam, Secretary to the Limerick County Council, called in; and Examined Chairman-contrassed Chierra and after several meetings maanmously adopted the

9008 You are Secretary of the County Council, Mr. Quant 1—2.08, ser.
2009. What can you tell us on the subject into which
yo are impairing 1—1 would like to draw your attenone to the following resolution consistency passed by
ear Comitty Countril at its meeting on the lat Septemear Country Countril at the respecting of whites. her, 1917, in reference to the proposed railway exten-ses to Elmerck Docks — That in view of the great

to method to mean propresentatively, vir. (as colonly Ecrosph Coursel of Literack, the Harborn Bessel, the Charloys of Commerce, the Trades Cornell, the Preferrated Labourt Coursel, the Employees' Federation, and the County Council, the representatives to meet at no early done." The Conference cause together, Mr. Loves Monary, Managing Director of the Limerick Steamship Co., Ltd., called in.; and Examined. Chairman 20th You are managing director of the Limerch Steam Pucket On, Mr Mortey i-Yes, xir. Believe the war we were running steamers from the Continent bare

were story to the control of the con such the dates. It would be repossible industried the basic being the region of a state part of the basic being the region of a state part of the basic being the region of the basic being the basic being the region of the basic being the large. A number of those places have not the rooten-or in fund to get their hardware strength so that our thinds to get their hardware strength so that the second of an economic one could get alongside, and this is no cuttles that the close to be the first pos-2042. Do I underextrat year would still the first pos-ting on a glinch line of situation the States to Larizanck if these was some consistent with the deshirt of each do not parameted to the states of the contract of the second position of the states of the states of the second position of the states of the second position of the states of the second deshirt of each do not parameter to I don't want people of the second position of the second position of the second second position of the second second position of the second position of

Mr. J. P Peary, Secretary to Lincoick Harbour Commissioner | It would probably mean 500,000 tons of traffic additional. Mr. Pield

sees after several assumpt manifestary apopted the following resolution, perposed by Sir Alexander Shaw and seconded by Mr. J. Crosea, Provident of the Trades Councel, on the 14th December, 1917.—"That this Centerance andress the views expressed by the resoluand nature consistered the matter road all points, hereby resolve that the proposed extension is of vital importance to the present welfare and future pros-pority of all classes in the city and occurry." It is year

querests of the count and not assumed decoopment at the time this Conference was moving, and I am abo-liably certain that if my Conzel had an opportunity of recommending the improvements to you that they

2040 The matter might be again referred to the Con-ference. The only matter dealt with by the Con-ference was the relivery extension?—Yes.

Mr. Keating

to come afterwards and say to say. "We have healt the colling year requested, and may be say. "We have healt the following year requested. More made on year advancers as greatered. More repetition of the contract of the co

varings to the panne.

2015 If you had these steamers on, and the canal
was improved so that earnal boats would come down
and lay alongside i-You would have the whole country

and by decapide?—You would have the whole country year by year that case.

2014. Are 9,000-6m stempers light drample beats!— You would have to select your steamers to sail year drample, and you would have to endeavour to run for tides. You sujell have to lighten now sufficient you with regard to place, I am serry Districts Reard, espe-are being health is the Chemical Secretary of the country of the property of the country are being built by the Occasional Districts Beard, especially round the coast, they take into openioration only one point and that is the utility for shring books going aboughte and spotting that fall to the point Once they nave done that they seem to be satisfied, but in a great many costs they have not taken unbe consideration that fact that the first that the first hard got to be consideration that fact that the first that the first hard position and the same consideration that fact the fact that the first t met un a grant story cases they have not taken rules combination for for that the fibe has get to be chiltred for the propose of shipmant, so that while they possed for the purpose of shipmant, so that while they possed for the fibe heigh ladded on the part hay do not our mail. The propose of the ship taken as to comail. The same to comail. The ship taken the ship taken to come dompose the read have enabled steamer to come dompose for the staken plotte to come shoughes. It is luftle on a suck, and I have seen these the three rayself. I filling, for, that is all I while to any

Mr. Hudson 2005 I just want to ask you this question . You heard the evidence with regard to the volume of traffic that would be likely to be carried over this awe line of milway if constructed. Have you at estimate as to what would be the increased volume that would be want would be the raceased volume that would be carried over that new bind-LI do not think I would hike to give an opinion on that matter. I would hike to be new of my lasts. 2046. I don't want to pin you down to a particular

3047 Are you prepared, Mr. Mortley, to state that, if the docks were connected with the milway in Limerick.

0 178.

17 Sentember 1918 1

Mr. Field-continued. you would favourshly consider the question of running a line of steamers from the States to Lamerick 1-z would. Of course, I am only one individual, and cannot guarantee what were my directors would take

cannot guillative want tree my miletters would take Pensanily, I would knoorably consider it 2018. I do not wont to bind your empany at all by what you gitted—I say centainly, yes. 2022. And until the milway connection is made with

the docks you cannot take the matter into considera-not pay directly to the realway it would pay industrily in the amount of employment it would bring into the

town 2001. With regard to the harbours, do you think that the Government ought to provide another diedger and po accord and dredge all these little harbours that cannot afford to do the week themselves owing to the want of funds !- Yes.

Mr. Herren. 2082 You have considerable experience of the whole

shipping conditions both stawards and thwards 1. Yes 2053 Do you agree with the evidence given by Mr. SASS IN YOU Agree with the common green of Mr.
King in reference to the waterways !- Yes.
2054 And the evidence of the Harbour Communacroses with regard to the development of this peet !-

Yes.

2055. Do you think a point lower down the Shannon than Linerick itself would not tend from the national point of view to develop navigation?—You are referring to Roysea.

2006 Take any point?—We have heard a great deal
about Blacksod Bay and all these places, but Feynes,
in my opinion, is the poet for an Areccien service—a

in my opinion, is the post for an arcentean service as service de laxe. As a distributing centre I think Limsruck better on account of the examl and the trouble of getting these small cannot boats down to Foynes in but weather. In fact, they are not saided to

Chaireses 2005 You represent the Lemerick Trades Council? —Yes. 2006. Would you tail us what is the feeling here among the Tusies Council as regards the reliway cou-nection with the docks, and as regards getting better. carels?-The feeing is that we are entirely in favour of the suggested improvements

2007. You have heard the evidence that has been
given here this morning, and are you in agreement
with 18—Yes, I am quibe in agreement with 2

Mr. E J. Luca, President, Limerick Chamber of Commerce, called in; and Expressed Chairman. Chairman-continued.

2071. Yes would like to give us some artificate, Mr. Long 1—1 would like to give us some artificate, Mr. Long 1—1 would like to key that I have been connected and the state of transcer for a goed many variety and that we have a few control of the docks and that we have used to be stated that we have used to be stated to the control of the worst few few and the constitution of the control of th Commerce the question of the effect which the con-

Mr. Thomas Dovestian, Borough Councillor, representing Limerick Corporation, called in; and Chairman.

2072. You have beard the orifance given this man-ing 5—1 have, sir.
2072. Are you in agreement with it t—Yes; in thereash agreement. For a very long number of years as a public man I stolid the whole germine with again to the Internal navigation of Ireland. I have

Mr. Respot-continued. 2037. Some people think that Taylert is a better pays for seean bous!—It is totally unsatisfie. You have stready made a harbour as Foymes with 23 feet of Dublin. In Binckeod Bay you have only one con

2058. Supposing that some place in the mouth of the Shanners was under a port for big beam libers, what would you do with your eargo!—You would have to distribute the cargo, I suppose, from that per distribute the cargo, I suppose, from that per

distributes the cargo, I suppose, from this peer \$650 Garap to England I—I do not think that in sliopather preciscistic. My way unpersons is that any covere similar rather be on the principle of a run to present service, which should be learned at the present service, which should be learned at the present service, which should be learned at learner prepare on the Wednesday personner. According as New Hernell and on Satturdey meeting the com-tage of the present of cargo, except freshed and take the majority of the compy that in knowled-ture of the sattern of the compy that in thought was at the satt than the distribution in England would. ever be female or practicable or prafitable.

Mr. Lindsey 2060 You speke of a de luxe service from the States to Former !- Yes 2061 Would that not rather imply no goods traffed This, that is what it would come to 2002. Well, they could they give a return cargo!—Well, they could. There is a very considerable grannity of fin, and there is a good deal of hister and skins.

Mr. Nied! We want to keep the skins and hiter at home in future.

Mr. Zinday. 2053. What you really want as to get the quickest commention between New York and London I.—Yo. 2004. De you consider that a beast coming to Feyne rather than to Frahgaset would give a quicker commensation.—I think so. You will seve the day to Landon to New York, and 2½ days to Chicago and Wootson.—In the control of the property of the control of th

Mr. JOSEPH BUCKERS, Representing the Limensk Trades Council, Examined. Mr. Poll

2008. Does your Council approve of the railway being connected with the slocks and quays 1—They do It was the President of our Council who proposed the resolution at the conference referred to by Mr Quart 2059. You have no objection to it from the labour 2070 You think branging in more goods will give you more labour? - Yes.

nection of the dock and the conal harbour would have nection of the dock and the consol harbour would have on the city was fully considered. I am in complete harmony with the exidence that has been given here of the Chord it had been given been as a con-order of the Chord it had been given here of the Chord it had been given here as a necture of the control of the control of the necture (that have been called by the Sovetany at the necture (that have been called by the Sovetany at the county Osizari advocating that the post stoud be connocional with the values. The Chamber of Orn-more are in complete havenow with the voice or pressed by the various gentlemen who have given

Chairman-continued Observation—continued all the maps and bests in connection with it, and I am of opinion that it would be of marces beautiful to all a more proposed to the carrier which a part of the decks and railways were hinked up and the canal brought mbe connection with the port. The Gorpanion are in thorough agreement with both prefets, are in the processing the connection are in the connection. Mr. DONNEGGAN.

Chairmen-continued. and with any movement that would tend to the pro-

2004 In the event of this connection between the shocks and the canal being effected it may be found necessary to believe me or two braighs "—Yes 2005. You realise that possibility?—"Yes, 2005. Would the Orepoporation be prepared to pay the

expenditure 1-That has been discussed before, and I Mr. Biomann P. O'Coswon, Bosough Councillor, Lunerick, called in; and Exemined.

Mr. O'Counce] I differ from my front who spoke before mr. I am not an fewer of andfing the city with the council and the spoke and and and a the spoke of the spoke of a stating bridges, became there. I want to say that we working me are not become of the fact that the predeminant partner owes released over 2000 000 Cm. related over £300,000,000.

GOS. We are not glong to discuss that. What we want is information in regard to increasened in interaction in regard to increasened in interaction in the control of the fact, for each make two, you would be one of the fact, for the fact, fo

2079. Thus is not a political gathering. We are here solery for houseas—to get information, and if there is any information you can give us we will be glid to hear it. We are getting information in the loop that other, may be above by the Emperial Parlis-tory of the control of the control of the property of the pro-

Mr. Genner vs. L. Wenzis, Locenfield Estate Office, Esmis, Co. Clare, called in; and Examined. Chairmen. 2051. You wish to give some existence, Mr. Willis, in televence to Kilrash?—Yes. I are sired we are in the unfecturate position of net having beard of your insortent Committee until a few days ago. It is quite In this his attentionent was inserted are Lintered, spipers and 60 not contain in Class I have been stimuted in the polity of the Government for real sensitions of the Parker I have it spire. Occurring I, we work a Mr. Gilyan, and the next important today works a Mr. Gilyan, and the next important today works a Mr. Gilyan, and the next important today in the dark. This is very unfortuned, and to the present to the contract of the contract of

which in Sampley right, and the point arranges must are of each anxiety that it was emposable to be mintered as a subject that it was emposable to were untime to get information for the way or brainful but if it is formation for the way over brainful but if it is the state of the second of the state of the state of the second of the second

Mr. Lindsen-continued believe myself that the Cornegation will be serpared to bear pertion of the expenditure, became they con-

Corporation would bear their part. Mr. Freid.

2077. You are of opinion that the Corporation would do what they can in Yes.

Chairman | There seems to be general unanimity has in favour of this schem.

Chairman-continued is a matter of good faith or not. We workers, at all

or whether it is nettely diswing a red herring across the track.

3900 Tant is a matter that you make up your own mind about. We know correctes why we are here. We want to get information, and we look to you are to your frequent to kely up, and in a good necessital— we have always helped in good measurem: I would be the commond the Mirmbers of the Committee to get We have above helpful in good mescensis. I would compared by Elizabeth and the compared with the compared with Elizabeth and was compiled by Mr. striker Grifful. You will find in an increasing control of the compared with the con-nisioners.) Mr. Hannon also Mr. Marley a question in the compared with the control of the con-lection of the control of the control of the con-pared at Laurent's in the constrained or any in belond, in the control of the control of the control of the part of Laurent's in the constrained or the control of the intervals in the sea possible.

that Mn. Power | Mr. Hannou suggested a port nearer to

Chairmon-continued. out into the Shannon, thereby making a larger number There is also a very important creek in Kilwah which could be despend with great advantage to the trailers. Small vessels can come up to the entrance of the town by that creek. There would be entrance of the town by that creek. There would be no difficulty in extending the pier at Cappegh. By extending the per larger vessels could once in. I may mention that this distinct went in largely for the culti-

measure uses this essence were in majors for the east, valvor of flar in the past, before the famine, and there are other indication in the district which could be developed if there were facilities of transport. The atones which pare the streets of kincerick and other large crites have come largely from the dietrict, and Chairman

3033 By our terms of reference we are limited to parts and canals. Our Man Committee has a wider reference. We would be gited if you sent us in a full statement 1—Yes, we still be glad to put full evidence.

or a very important district in usare. During to like their notice we have received of this sitting, we were not able to get together even proper maps, but I have brought a title deed showing the harbour and every-thing connected with it. We would be able to supply Mr. Huden 2084 What is the distance by rail between Eccuis and Kilruth 1-48 miles

or connected with it. We would be able to supply with fuller details if we had more time. No one 2035. And it is all a narrow gauge b-Yes, the whole-way. And unfertunately it is not as artisfactory as it in Kilrash heard that we might come to you mail more o'clock on Saturday night, and the pestal arrange ought to be 1000 the widened?—Yes, because there are no serrous cuttings on the line 2007 There are not many pearhead, bridges !... I don't many where are not many tourness, undges in-1 diff'th know that there is an overhead bridge anywhere or the lune-oh, yet, these are two or three. There would be no difficulty at all in widowing the line. The over-

> 2033. Can you tell if any diggings were made with regard to lead t—There have been several minos opened. There was one particularly at Ballyhackey. That was * Statement not furnished

unfocturately

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unfortenately flooded a number of years ago, and the company were broken by the flood. Some £50,000 worth of ore was taken out of it.

Mr. W. J. Gayser, Miller and Trader, Kilrush, called in ; and Exemined.

2000. You have get a steam mill at Kilrush, and you

2000. You have get a stoken mill of Kilruch, and you do a large trude. One you tell at sementhing showing your barillites for the impost and expert of staff.—We deaded Squary, nor Kilruch. All nosp tides we have not more than 8 foot 6 nucles. The quay is quite constant, a man the all saff from the every We sent to get the creek despend so that ordinary results can take a first saff to the deaded of the complete staff to the complete sta

despensed—a anrrow passage. 2001. Where do you lighten for Herehant's Quay?-

2000. Where do you lighten for Merchane's quay re-wed don't lighten. You have lo wait for the tate or lighten at Chypagh, a rule and a half away. 2022. What is Gupagah Par, it is were extended for cost costing in. Gupagah Par, it is were extended above 200 feet, would be fire any resued to go along-steen 200 feet, would be fire any resued to go along-tion of water at low-water title. At the head in it really alone 8 late.

about 8 rest.

2008 Do you know the amount of tennage that you can get there in the year 1. I cannot tell you. We have no facilities. The narrow guage railway is a block

2004. What facilities have you got on Cappagh

2005 There are no counts ?- Yes, a private one 2006 There are no conserved, a private one.

2006 The narrow gauge nillway runs right across
the head of the purel—Yes, and the pure is peculiarly
mode. You lose 30 minutes in every hour discharging

a boat of coal there. Mr Fide. 2007. What lunstic devised that I-I won't tall you You lose 20 monates discharging a coal cauge out of

Chairman

2008 What is the sue of this pier?- There are four berths three decent ones. The size is roughly 170

Chairman 2114. You have heard the evidence just given by Mr. Ghunt-Yes, sir 2125 Do you agree with it !- I endouse all he has I so a little further in regard to the develop-of Cappagh - I have always been an advocate for

ment of Cappagh - I have niways need an exall that Hr. Morley has said in regard to Fornes. I have for many years falous an interest in this project, and I repected to the Chanking Government on the notites some 15 or 39 years ago. If you shoply the map, it seems to too three are possibilities in the way of having a quantitative port at Cappagh. There a or having a teameratance poer at Cappaga. Amere is et least a mile of frontage, and if a pair were con-ofracted and a stage thrust out, similar to that in Livernoot, you would get a sufficient depth of water, and the access from the Channel is unquestionable.

Chairman.

2122 We are very gird that you have come here to give so oridence. I have, however, seen the heads of the exidence which you propose to offer us in refer-ence to Seateld For, and I don't think that it comes ence to Security Evet, and I gon't mans there is consistent within our terms of reference, because the reference.

Limits us to ports and enable—We are a port.

2233 What track do you get through the port!

Then year we served 1.300 or 1,500 term of boly, and, as This year we serve a new or 1,000 tons et map, ann, an you know, into has largely gene up in waite. It wernges nearly \$11 a tan, and the porrest people on the coast lose from \$2 to 30c per ton because they have not been able to take it by water carriage. Sea-

2089. I want to know scenathing about the dapth of water at Kilrush 1-Mi, Glynn will be able to give you

Chairsses-continued

[Continued.

Seed, 170 Seet, and say, 180 Seed. In the apper both the depth of water is 14 Seet, in the moddle borth it is 18 Seet, and in the Seece borth it is 26 Seet. 2009. What imports do you got—Cod. 2009. What do you get noto Merchant's Quay!—All

linds of commodities
2101 That is for local consumption?—Yes, up is Emintymon and all the way to Emma.

Emintymon and all the way to Emma.

2102. What do you export !— Eggs and holes. Long ago we used to thus a tremendous quantity of dags. 2105 Do you skip any home-grown fumber !-- Not at

Colonel Gretten. 2104. The traffic done in Kilitush is local traffic !-

es. 2105. For the distinct and West Clare?—Yes 2106 Is there any possibility of extending the traffic if facilities were obtainable?—Yes, Would the traffic become more than a local 2107. Would the name become more than a traffic!—Xes. 2108. How!.—We could tap Ennis, for instance. 2308 How !-- We could tap films, for instance. we carried get staff beyond Equips at present because the "narrow grapp" only takes it to Emis. 2109. In there any shelter in Cappagh!--Yas; 2009. In there any snester in cappage. — and vessels are safe from westerly winds.

2110. In these shelter from southerly winds 1—Yes

I never knew wind or sea stop wessels discharging. Mr. Field.

2311. The principal thing is to extend the paer!--

2112. If the "narrow gauge" was broadened, what traffic would them be outside local requirements?—We would get a counterable quantity from Easts that 2113. What kind of traffic !-- Holes, eggs, kelp, sur-

Mr. F. J. O'Douverr, Shannon Steam Saw Mills, Kilrush, called in; and Examined. Chairman-continued 2116. You have got stry amount of water outside the ner!—Yes. If a suitable harbour was made near

2015. You have got sity amount of water outside the part-Yee. If a suitable harbour was made near Cappain Per. 2017. You think that would be quite pretented for transathrate steamers to go into 1—Yes. With negod to relively includes I would like to see a new board water wallows from Kilmah to Engle. peops railway from Kifrush to Esnis.

2138 What distance would that be 1-27 statute
makes to Esnus, or 50 51 miles altopother to Longrick.

n hour's run 2019 How far is it from Lementsk to Rosslage !--] 2020 Have you got a copy of the report that you made to the Camedian Generament?—Yes. sinds to the Camedian treestament; — res.

8321 Would you give us a copy of it?*—Yes. I answered questions they asked me.

Reverend Jour Garns, P.P., Kilmurry Globs, Mullagh, Co. Clare, called in ; and Examined, Chasteses-continued.

field Pres is both ill constructed and badly approached in the Channel entrance. It is near the best of the fishing grounds on the west coast. The carright shing grounds on the west coast. The currept highly need on stepl at run stages of the time tiber go to see or referre. Coal is found the time tiber go to see or referre. Coal is found the street of the coal the see. The coal is formed in the local forger, and it is also plentifully found in Mount Callin. The two former sounds are within an English mile of the cracking tiber, and the tittle is for model above. The curreght raniway, and the latter is five males away

> * Copy not vapplied 2124 The

Mr Freid.

2134. The pier is not connected with any railway station 1. Not yet. The pier was built some time ago by the Board of Works, and they forget to make an agreed to it. Some time ago we salled their streets to the delet, and they spent down an expectation was specially connected with the construction of the deleter, and be imposed to higher and historicar, and be imposed to higher about some months ago. He recommended the deep same after the design of the agreement to the hasbour is gift feet and the amount in gold its agreeded by 50 cs. 50,000, and the Basad of agoinstitute of \$5,000 cs. \$1,000, and the Basad of \$1,000 cs. \$1,000, and the Basad of \$1,000 cs. \$1,0 Some tune ago we called their attenexpenditure of 20,000 or 24,000, and the Board of Weeks were willing to do a him at the matter, but un-fasturately some of the plans on the coast of Clare belong to the Congested Dutricts Board, and it is not instantially seems of the product the mol-belong to the Congressed Dustriets Board, and it is not easy to get a Board in Dublin to work over 180 miles are to get a Board in Dublin to work over 180 miles from their base. They are in charge of these piers for from their base.

from their base. Itiry are in emerge of these poers for a long time, but they are not doing what they ought far some of the parts. 2125 Would you tall the Committee what water you have got up to the part -At high-water tide from 8 to 10 feet. At low water it strands out almost conon 20 feet. At low sater it straints out almost com-patiblely. There was a firster extratupate short 800 or 500 years ago that embrarged its branklands and haurieris of people. The cold into of the sea in market by the sinkersent. Yes have 50 or 40 feet of water there and it is bettered by Munton Lishand. We could be made under for many the people will be a could be made under for many the people will be a spart owned, termed 325 over cost of pedals. The sajert sourced, for indexece. The kelly we get has been analyzed and settlered 35) per cent of petable. The powers people on the coast of Gire are issuing 30s, as ten by the last that they have not water carriage. They could appre sourced, which is very valuable as marrier and proposed on the proposes. All that is corring their bedome our cycle—thousands of jens. An except their colors are considered to the conroccing there before our eyes incomends of tens. An expenditure of £3,000 or £4,000 would enable boats to appenditure of 20,000 or 24,000 woun sallow only pet into the port. Yesterday nine fishing sensors, I suppose from Scotland or England, were resping a most bountiful harvest within four or five miles of our

Mr. Field 2126 You could not touch it?-No; if we could we

would be millionaires. 2127 Are there many boats?—There are carragh and Are intro aship occas—There are verticing in the present condition of the approach to the point righting else would said. If that pow had been deepened even by 4 bot it would be a great advantage, as moter beats and steam translers could enter, but we have not yet got it done. The report of the Board of

Works in there.

2133. I understand you believe it would be very unterful if the necessary dredging were done belt would be invoce than deedging. They would have to east shrough some parelly rock, but it outlid be done to the one in most in partial, 22,000 or \$4,000. I think it would be no here for this Generalite to look into the would be no here for this Generalite to look into the world be not here for this Generalite to look into question of the small harbours as feeders from the

2129. Yen are three-quarters of a nile away from the rathway?—Yes. I would like to say that I can not personally interested in the improvements I have suggested. I are only interested for the benefit of the

suggested. I am only informated for the benefit of the populations on eight units of sechosaid. We have an abundance of turf. The large and good quality tarf-logs as West. Clare could easily be made to serve the interests of the people in Rest Clare by properly con-structed and trucks and turf trains. 800 to 1,000 areas of turbery could be made available and service-acres of turbery could be made available and serviceacres of turnery coain to many sessingle and service-shie alike to the expecters, to the beyons, and the railway. The carriage of turf by train would highlen salway. The carriage of turf by train would highlen the burden of taxation of the realway, which is guaran-teed by the ratepayers. 2131 It is a truffic that rankways don't like to handle, as a rule!-But they take our money. This is a

gravesteed reliving

My. Field 2151. Was any effect made to try and work the coal

23.32. Have you made any representation to the Coal Controller and to any of the authorities about it? o; not yet 9133. Don't you think it is about time?—Yes; we mean to do it. 2334. Your evidence is that if the facilities were

there you would have an enormous output of help!-2135 Then you want turf carried by the railway !-

Mr. Kesting.

2136. In view of the argent necessity for increasing the food supply, have you anything practical to

post! There are 800 houses in my patiel. Every house has grown increased potatoes, wheat and burley. Last year the pointees were selling at 4jd a stone Lans your the possions were staining at \$40. a abone, and some of three west meless in the pits, whereas if we had a poer we could export them. If you could assist us in currying out the improvements I have seggested you would be conforming a bost on the poor, and they never farl to give thanks

2327 I don't want to make any suggestion that we are likely to be able to do anything in the matter, because it evidently a matter that the Board of Works his got in hund, and I would suggest that you would up to got them to go shead I—I would yather peak an open tiers, like your Committee

Mr. Fiehl. 2138 Will you send us in a statement !-- I will "

(The Sitting then exceluded.)

* Statement not sent in

TWELFTH PUBLIC SITTING: WEDNESDAY, ISTR SEPTEMBER, 1918. At the COUNTY COUNTY OFFICE, GALWAY, at 10 am

MINISTES PERSENT : Colonel John Gretton, M.P. Mr. Wm. Field, M.P.

Mr. Matthew Kenting, M P. Mr. Walter Hudson, M P. Mr. P J. Hannen.

Mr P. J. Hawasor acted as Secretary, SIE ARTHUR SHIELEY BENN, M.P., IN THE CHAIR.

exast at present.

Ohau soon.] My Lord and Gazzlence, I should like to say first of all the remon why we are here. On the 5th of last month the Heros of Common appointed a and co-operation, age to the adequate and austable to meet the national requirements, and we see mendations. That Select Committee appointed a Suit-consultate, of which we are members, to increasing the meaning of the selection of

Mr. W. N. Brock, B.D., Harbou: Engineer of Galway, called in; and Excessed. Chairman-continued ance. They said. "We have spent £50,000 on time

2139 You are harbour engancer?—Yes, an I will deal fast with the question you put to me as to the present necessates of Galway Harbour. The Commerpresent measures of oursely finteen. The Commer-cial Dock that is used at present was originally con-scripted about the year 1858. The depth of that dock Strates about the year 1855. The oppe of this noor mentable for venest at please it is only 16 ft which is to say, you can only bring a vessel drawing 16 ft, of say, you can only bring a vessel drawing over 16 ft. has to be lightened off the roads.

2160. World you explain the reason to Owing to the control of the contr

depth A vessel, ear, dressing 30 or 21 It has a passage into the commercial dock of only a little over 16 it. [5] ft. 2341. What depth have you got in the food 1—At high spring tide about 18 ft. As the disputing increased freet year to year that Rathers Communication formal the measury of providing outs are considered and facilities for being grant except and facilities for the increased respectively of the providing out are seen to large draft than 16 ft. Accordingly about the year 1802. or 1883 they determined to make another deep dock The construction of the dock was started some time determined. Leans were post from the Board of Works amounting to E89,009 and E8,000, and the funds at the disposed of the Harisson Commissioners at the time was sensetting about 253,000. The total superditure on the dock amounted to about 259,000. There was mercan whatever for that expenditure to the Harisson Commissioners that the dock amounted to about 259,000. There was mercan whatever for that expenditure to the Harisson Commissioners have an extensive the Commissioners have an extensive the Harisson Commissioners and the Commissioners and the Commissioners and the Commissioners and the Commissioners and Commissione pleted. There is a ridge of rock running cotteds which limits the depth to only 18 ft. The depth of the dock is 25 ft., but, owing to the lack of water in the channel

leading to it, only vessels directing 16 ft. can, eccor in The works were stopped some years after they were started in about the year 1897 for want of faints. The Board of Works relaxed to advance any note name. The Harbour Commusseress had no faint faints threshes to complete the work, and the deck in lying for close on 35 years without broughing to review of are last the Harbour Commission or present of are last to the Harbour Commission to present of and in the year 1903, just before the war, the Harbour Chemmedorese again applied to the Bound of Weaks and asked then lee hands in order to complete the where The Board of Works reduced to obvaice any facther money although the Harbour Chemmestrates were paying off the samistian on the two locus they had received for yours. One of the locus was changed at the rate of 4 per cent But, as I have stated, the

The matter was considered by the Development Communication, and they agoed to great the mercy measure, and when them estimated by Sur John Guittle Sur John Charles, and the super of Sur John Guittle, the property of the pr of wider would be of great sensiti to the port. 2142 You stated that the Development Commissions recommended the granting of the from 1—You 2145 Wear these say armagements made for guaranteeing the bons—Ax a matter of fact the Development beeing the found—as a matter of face the Development Commissioners made for certain local gineancies, and the Urban Commis were appealed to its given a guarant the Urban Commissioners and the distance Commissioners of the Commissioners of t

phones as they may consider necessary for this new passes at they may consider becoming for this per-pose. We give an much information as we could in the various posts as to the time we would be able to visit them. To-day we want to go! from the people of Galway information as to the facilities that are offered Using minusation as so me technics that are ordered by the port, seggestions as to what could be done to make the port more suitable for the commerce of the place, and while we cannot take evidence in regard to

any suggested scheme for a new port we can bear eviany suggested achieve to: a new port we can bear ov-dence as to why a new port might be admissible here owing to the lack of for-fitting given by the protection port. I should therefore like to start by saleing the

engineer to the post if he would tell us what facilities

and many and, we have spent 200,000 on the week; we are getting no revenue out of it, and the works are half completed; will you grant as a loan? The matter was considered by the Development Con-

bollow has opinion was abover to their southeres of the Osunity Osated gurantee. The following is the Osunity Osated gurantee. The following is the minate of the Development Commissions in counselien with the matter — On an application from the Cambridge of the Osunitarious recognition recogni pared to recommend the loan provided substantial local So you see the Development Commissioners were pre-pared to give this stratey, and the level architecture, as far as they were temporated by law, were singuised. One cause apparently why the autory was not granted was that insatellistly afterwards the was brelie out Nathang him bear does not considerable to the con-marks for the Development that recommendation or un-made for the Development of the recommendation or un-rade for the Development of the recommendation or un-rade for the Development of the recommendation of the made by the Development Commissioners That I

heres 2144 What about your railway connection !-- Ti 2344. What about your nallway connections—The milesse communicative comes almospade the deck. It is used to a small extent for the fishing trade by the source that plays between Arma and Galway, and construct the plays between Arma and Galway, and construction of the property of the construction of the colly tenffe. There are no dress charged an fixed base for position in that the Hubbors Based have received no return in recompanies for the 250,000 which has been expected Unit I timel, is all the evidence I MB, BINNS.

[Continued.

18 September 1918.1

(Antennas-continued have to give an asymptotic but particular question. Palmays the committee would like to bear something of the hastory of Galway Pect. The mails at one time committee dealing with the Thomschille to see time contrastice dealing with the Thomschillantic service in 150 and 150% I have maded cet list extracts. At encounties desling with the Thomstalinias service in 180 and 1806. "I have marked extin extract. All controls are serviced and the service of the control to the same of the simp invest pursuant table caused—the amports of grain and corn control, and everything in that way came by more core years. To adout the serviced control to the same of the production of the serviced control to the serviced entry custed counsel counting, and there was a large trade done by rail. The caused its county is the serviced county of the serviced county in the serviced county of the servi

the oil his course by real. Of these interpretant councedings, there are also greatesties mappeds into Technical, and they have been coming into Galeray by real for a satisfied a few seals. That if a thinked to the weat of another harbons accommendation.

1. The council of the contraction of the contraction of the council of the counc and they have sman mosts the man is pursed in bushers, and the baskets are dragged up and sent on baseots, and the tessents are errogged up and send on by the insize, mostly to the Dublan markets. The English travelers fall outside the limits of Airan Edisc), and I believe there was a considerable feet indicate a section of the control of Artista. In the control of th Mr. Field.

\$165. Would that be improved if this \$55,000 were quanted?—It would be improved decidedly, because the Channel would be dredged out to the roads. Sir John Culfish's tokerne is an extension plot remaining out b Guitati's tokerne is an extension their rimming out to the east Side of the deel. There would then be 10 feet tome water at that bur than the existing levels, so that bears drawing up to 12 or 12 feet could pass through. The fidning boats could come in lead their fab into trucks, and go off about their feding again. Thus mould gestiming be a count beautiful to the head at the

tan unto tracky, and go on some, their remost again. That would certainly be a great benefit to the local fish-Chairman 247. Is there are close rount, you would like to deal with 1—I think that is all I have to say in regard to the time harboring question.
248. Do I indorstand you to say that the 250,000 that has been expended with regard to the existing harborn is pentically nesless on seconds of the roote that like outside—Dec. absolutely modern.

Mr. Marris McDarosz, Chairman, Galway Harbour Commissioners, collect in; and Examined.

2172 You are Charmes of the Gabray Harbour Commissioners I-Yes, say 2175 You bould the cridence that was given by the cannor?—Yes. engines 1—Yes, in every respect with #1—Yes, in every respect. Of course, the difficulty here is that Galway was the first feeding dock. I below, that was tout in the hingdon. Solling vessels of nearly any size we can deal with, but in the case of sessense we examp take them. If we had time to lighten them, as we have in

*First Report (868) dated 22nd May, 1860, from the Select Committee on Packet and Telegraphic Contracts and Telegraphic Contracts, dated Elect July, 1861, from the Select Committee on the Royal Atlante Steam Navigation

2149. And the first thing you require to do would be to clear these rocks 1—Yes.

to clear these rocks 1-10s.

2150. Does the rullway go down at that side of the
harbour 1-4z runs alongside the enzys. Some members

of your Centration some in last ragic of the leading and unlocking cappollars have you get for leading and unlocking cappollars you get steam cranes or electrical crains about the dock we have no facilities. have no crames !-- Not on that dock--the 2158 Yea sep water dock. Three are two hand crames on the

2153 What is your plant?-We have a ten-ton hand

une and a three-ion hand crune.
2154. Are they morable !-- No, both are fixed 215th. Have you any diedges here 1—No, arr. We all some dredging at the entrance of the connercenal ook. We specil about a couple of thousand pounds.

to disclere the dock.

2055 Yea have an declayer younce! I —No. We get a disclore from the Beard of Weeks.

2166 Keev would the anniher observe that have been placed from the surrounding statement —I is would be a great trapprovement —I is would be a great trapprovement —I is would be a great trapprovement of the local temperature of the local temperature of the local temperature of the post of the post property of the local temperature allow.

their secont see allow.

2028 How long was to be getting plate-we would be allowed by the second by the plate-we would want a reck-critice-wall of barge was concern. I think it might be done within tevelor months or arrandom even would it not have a considerable effect in the verous fits of property in the part of Defauld—We would be able to get there in here directly would be able to get them in here directly was wall be able to get them in here directly was worth as able to text he additionally certification.

2160. The improvement of your post would react on the improvement of the West of Includ? - It Colonel Grettes. 2261. With regard to the estimate of £61,000 that was a pre-war estimate?—Yes 2162. The expensions would be more new?—Pro-

was pre-war cellinate—Yes
Tillé The expediture would be more new1—Prohably double—at least double. It is practically inpossible to estimate at the possible to the protion of the pro
tion of the pro-2165 Would it take long to remove !- No

Mr. Lindson

256. You spake of the steamer to Arant 1—Yes.
255. Is that not substitud by some public
256. Is that not substitud by some public
256. If the week charged of the Arran steamer is
would increase the low to the Computed Districts
Rend-1— such a slight method. It than kindley
there was a small charge out the steamer.
2170. Would you out strictive the tability off of that
trade to the tank steamer.
2170. Would you out strictive the tability off of that
trade to the tank steamer.
2171. It is now than a question of drift of water!—

the case of the sailing vassels, we could deal with them. The largest steamer I have had in 2,500 tens, and I was taking a great deal of risk owing to the present conduction of the harbour. We lightened scentisting out

of her 2275. Have you to pay the extra shilling in Galway on account of the slow discharge !- Yes. Now it would cost us about 4s. 6d. to discharge a lighter. The diffione as assess 40. Car to concerning a rignor. The fills only is that the slips are getting larger and larger. Of course, as regards the grain brade, you know what happened here, come time in the "eighting, when we had wren or eight flour mills. I now canges of flour delivered from Sun Prancisco at our passess a ton, care Galway.

I Galvay. 1276 Hare you a good road for lightening 1—Tes 1277 You heard what Mr. Binns said about the 251,000

Silion being accessary to complete the deep water dook 1—Yes.

2170 Do you consider that it would not very mosh more than that sum at present 1—Yahus, of course, have alread very much more the war. I am certain their sum at the war. I am certain the sum at the sum of the war. I am certain the sum of the sum

I stated not become a nanoun new, proceedings of the control of th

2809 And yes think the harbour could be made to decoursely, and go goods. Two, if the enemy is small, the could be made to the could be made to good the could be made the could be made the county in Colory 17 has to brail results any of 3,000 to 5,000 mas, and that would be read to good to be county to the county of 1,000 to 5,000 mas, and that would be read to be county of 3,000 to 5,000 mas, and that would be county of 1,000 to 5,000 mas, and that would be county of 1,000 to 5,000 mas, and that would be to good a 1,000 to 5,000 mas, and that where we have to good to be compared to the time was the same year. The following to that positions you could hardle are shall that Two distributions to the good to be compared to the county of the positions of the county of the cou

day. If the consider cannot come into the quary yes.

205. Here ready from deal with persons responsible the control of the co

would be up to 40 000 tens

Mr. Lindsay,

3385 You spoke just now of the great water power you have in Galway?—Yes 2386 I suppose Lough Corrib gives you an intrhantible supply 1—There are three loughs 3367. Be you make your electricity by water power?—Yes.

2038 Your electric light here is all developed by valor power in Yes 2028 Note by steam in No. I make electric high rayself, and it is by water power.

Chinal Gorten.

2010. Has any obtains been connadered for despensing the present connected dock la-Yes. We have been by paint prings to get concelling done in the paint by the prings to get concelling done I is a world at any sings of the risk confidencing or hard or take on presentant. Each six in to see, place to the confidencing or hard or take on presentant. Each six in to see, place to the confidence of the confidence

Mr. Manuese 2502 What were the argentries mad before the Development Occumisations which induced them to be Commissions which induced them to the Commissions to the Commissions to the Commission of the Commissi

Mr. Hannon-continued,
3394. You are, yourself, one of the largue bestome men in the West of Iroland I—Yes.
3395. And you agree that the development of the Port of Gifvay and the agreeitural prosperity of the surrounding contry march together.

2006. And you agree that the development of the Pect of Gelveys and the agreemity at the surrounding country much tagether—Lyos. 2006. You use of the option also, I take it, that if the Pert of Galway had greater foolities that the productive appearing of the surrounding country would be very much mecessed 1—I am 2007. Car you see in the Wort of Delinard country

productive capacity or the surrounning country would be very much mecessed—I are not retained green cacinate of agreement and the first and green cacinate of agreement are featured. The farmous are leasuing what they can do with their land. And you think there is a new spirit of deescounted—Los, at me a different brilled of their part

legementh—Tée, it is a different network in the part from what it was ten years ago.

2009. With regard to large categoes coming mits the port, as it not possible it you had oversoon categoes to be a superior of the contraction of the smaller tensible for his they could be transferred to enabler tensible for his they could be transferred to enabler tensible for his they could be presently affected in tensible to distinguish the generally affected in tensitively by the development of the porti—Yes.

2000. The are Gairman of the Hadrour Fourth-Tion 70 by both that the ways of the city on pure hardren has prevented progress of the city on the control of the city of the city of the second of the city of the city of the year world for allow the city of the city of you would be able to infere canadier streams a not you would be able to infere canadier streams a not pure world be able to infere canadier streams a not to these. The little hours to the city of the least up to a city of the 2000. With regard to the city of the city of the angle could be the city of t

dooks Ves tald as that there was a sprit of pocommenced by the policy of the policy of the policy of the Section of the policy of the policy of the Section 1, when of the policy of the policy of the Section 1, who started a rull is Sen Francisco. They delivered show there for exquinces a too. They got bottom is the policy of the policy of the policy of the best of the policy of the policy of the policy of the brank and sere since there has been seen the policy of the tall of the policy of the policy of the policy of the tall of the policy of the policy of the policy of the tall of the policy of the policy of the policy of the tall of the policy of the policy of the policy of the tall of the policy of the policy of the policy of the policy of the tall over the center of the policy of the tall over the center of the policy of the

2077. I think I geddened from what you mid that your schools is one to must the requirements of Link errors and impered trades—You. I make the region of the program of the proper trades—You have self then be at a the Communication's electric goes, you are takly not as the Communication's electric goes, you are takly not as the Communication's electric goes, you are takly not as the Communication's electric goes, you are takly not a every respect by present requirements—of the every respect to present the present of the conclusion of the communication of the conclusion of the communication of the comting the communication of the communication of the communication of the comting the communication of the co

2000. You have no pain develop head—No. We have no we for a proper paint of the pai

Mr. McDoncon.

Chairman-continued.

2500 tons, but I have taken the risk of having to pur My. Field

2014. You spoke about the cattle trade What aunthor of hours does it take from Galway to cross the Constant N-You lead the cattle in the evening about & or 7 o'clock and they are in Bublin at 3 o'clock in the morning. That is the way they go at present.

Mr. T. N. Executors, Secretary, Galway Harbour Commissioners, called in; and Examined.

2216. You are the Secretary to the Harbour Board ! —Yes, Sr. 2217 Can you tell me semething about the financial position of the Board !—The capital expenditure on the present shocks amounts to \$05,071.

2218 How much do you owe of that 1-212,270 is what we owe at the present moment pas are one as the years increased, 2219. So you have really paid off £53,000 f—Yes 2230. Do your tempte does and charges cover the perest?—In or about that, in pre-war time. 2021. And the working expenses !- Yes,

The Right Hon Lord Kinzayus, Charman, Galway Transablaniae Port Committee, called in; and Razemand.

Chairman. 2235. You wish to give us some evidence, Leed Killeam !-- I propose, with your permission, to make a

great transatiants port. 2527 We have got to stick to our Terms of Referpage we have got to star to be received in con-cess, and the only way we can hear evidence in con-section with that project us, if the inclinities here are not constituted suffected and it would be very hard to rube them sufficient. Having heard the defects in the examing hardson, we will pass on to the possibility of improving that hardson or to the messarily of constrong for our 1-1 me down't per merchant of 2 m Christon 2, "Income and the second of the second o

[Continued.

2235 I would like be know from you, as Chairman of the Harbear Board, if the relivacy shord the Harbear Beard to instilless it required to We have mover made any request to the Midland Company that they don't try to meet us. They have not is overy

Chairman.) We are very much obliged to you

Choireses-continued. 2222 Will you put in the accounts for the years 1912, 1915 and 2016 and 1917 !-- Yes

2023. I understand the Harbour Board are indicated to assent as far as their financial arrangements will allow in the provision of feedbace for the port?—Yes. 2224 Would that be on the security of your fown does and your thin rates !-- On the shop rates. 2225. Not on the town dues 1-Not on the town dues

care emphasized this. The important sinetegie post-val Laurier from Canada and the present Lord Morris from Newtoncidually have been so improved by these and other controlerations that they have gone to great trouble to visat Galavay for the express purpose of continuing and pseudolition. But, however, they express the property of the express of the pos-carront ovents have, I askents, demonstrated their reality and supposer. The constant journey record for land, on the north and potth, has growed exceptionally disagreemed among these wer. Most joes through subinnd, on the north abd sours, ma proved everywhere, dangerous during the wer. Meach less through sub-merties in the elipping trade has taken place in those journeys. The constructor of a harbour in the West of Iroland has been shown to be a matter of the highest of Ireland has been shown to be a milker of the faggeot-importal concern. But the antonnal aspect of the question must also be taken into account. Many of as in Ireland soil (I overlainly do) that Ireland has been neglected in Imperial recognitions and outlay. We have of good except and of var same of storicy lating apont disserbers in connection with Imperial matters, the other control of the connection with the property of the following the connection with the property of the connection of coved little attention Selden does even a man-of-mr visit our western ports, but I have seen a large German first in recent years (not long before the war) archored too many days in this bay. But a change of policy in which is, in my opinion, more painteds or more pena-tical, or which could have greater and more for reachfrom Great Britain to America by the through-from reate, as distinguished from the present round-freihand route, would be the quickest. Et would be quicker than all other routes because (1) the disputes in in which necessitates alow speed. Nor will they be de layed by the logs which occur in these marrower water

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Chairman coption Trick passengers and melfs and fruiths, and that is a

great came of dalay in the total puzzney. Moreover the abortness of the journey adds to its sulety and the shoreness of the possessy state and possessy to be done. See John Griffith, in his schieble pumphlet on a transationate port in the West of Iroland, to be done but seem truttat, in his valuaces pumper to an utinstallature port in the West of freshold, says: "Each vessel could make 35 per cost, more crossings in the year from a port in the West of fre-land than from Livrupcol or Southampton This quarkness would make the boate the 'nroced' one At the very worst, the through-Ireland route would be an alternative route to those from Great Epitain, and additional and improved route will uniquible in be seen needed in order to cope with the increasing traffs, caused by the wonderful growth of the States and Canada and of inveiling facilities. For all these reasons, I hope Ireland will be utilized as a steptingcouldned or observation. It has two walls, upon cases and set of approach on the north and south of the Aran hild of approach on the series of the star pear the shore, Islands. There is plenty of deep water near the shore, where the actual harbour could be built, and it would ha soully copuble of swelprama and subspaces in the looks of from the land, but heaters would be eless to the term to make heaters would be eless to the term of Galaray, which, ecogoise a central position and sewer, convenent to Johin and Edilari, to the north and south and easy of Ireland, and could largely and bestell of Julianian cross-terming the largely and breath of Julianian process brough the largely and breath of Julianian process are given in place or the west of Ireland for such a largely and best processed by the process of the country and a seminators. The Delland Chanter of Oknoziero recording agginness a he couly capable of development and special committee to report on the respective merrin tive merits of the different suggisted astes in the owns of Ireland, and reports in Sports of Glaseys. And these and many other sestimants has corrected the Fan-anders of the Sports of Sports of the 1950 that of was the unafficient sestima of the 1950 that of was the unafficient sestima by the sestimate of the secondide editions that Galway Bay is the most mix-able site for a great national Persborn. I trust that the considerations and points which I have thus brough totalled upon will be due so the Committee.

2228. The Committee are very much obliged to you for your statement. There is only one point I want to sak you. Have you considered what you would do side yes. Keere you considered what you wait if we will we demonstrate the property of the section of the secti that they are, morecope, as not a power to come very reveals as observed one of the to come very inspect from England — about days a good deal would larget from England, and I do thruk that this scheme to eccue from England, and I do thruk that this scheme to be yeally successful commercially does observe to be yeally successful commercially does

Chairman.

Chairman-continued. involve a ferry system from Great Britain to Ireland by which means passengers and mails and a certag

2230 Parcels and mails !-- Yes. Mr. Hudees.

[Continued

2231. I gather that your scheme would be to meet the needs of Iroland commontally, and also that Galway would be a port of great emportance for the 2232 Primerily a vestern world 2233 And your project would be one that would take the largest resuels affeat and be prepared own for

2254. No.1. 3234 And, in consequence, this women no the terminal port for a large number of transationis vessels?—It should be a terminal port. 2335 Have you thought about the possibility of coaling the vessels?—I understand that the service would ing the vessels: I and that this service would go to Habitar, where they would be could. 2555. There would necessarily be a number of vessels that would need to be could beget—In this case the coal would have to come around from Scoland

would be largely coulded on the other size for boy permany. Perhaps our Irish cost would be utilized 2507. You admit that that is one matter that would have to be provided for 1—Optimity.

Mr. Field. 8. Your siles is a terminal port at Galway ?-Yes, 2230 And in your outmon such a peer would be secul not only to Iroland, but also to Gross Braian !-

Yes.

200 In it year ides that this port abould be running for such and passengers, pursued and perichals and passengers, pursued and perichals and passengers, pursued and perichals are possible to the passenger of the passenge

be able to preside railway communications in commer tens with St...-Yes. to also to previous remains communications in connec-tion with ST.—Yes. SSS4. There would be so difficulty in regard to that?

2246. Are you aware that our Bublin County Council peaced a resolution in favour of this port so late as the 8th September !- I am. 2016 That was endorsing a resolution passed in 1911. You are of opinion that this harboar ought to be established as a transathintic port !—Yes,

Mr. Housen 2347. Time story of the establishment of Galway as a may. After stony of the establishment of Galway as a reasonalization poet as an old one I—Yes. 2248. It is a fact that the mails were carried from Galway across the Atlantis I—Yes, and made "precord"

trips.

2006. Is the idea that the Imperial Government own
outsething to the West of Ireland 1—The obligation is
to Ireland, and specially to Galbon.

2000. The Transallantice Port Committee, of which
you are Chartman, is a very inflaential belong 1—It is
represented by the Transallantice Port of the Ireland in
the my assentiative, with this model, and I great they you are Chairman, is a very inflavorted step from a representative. I have addressed a great many seventibles in connection with this project and I raised the second of the sevential step of the sevential s

ward. Size The fish-carring industry on the Arwa Islands and other places on the Western coast has grown energously i-Yes. 2255 You are also aware that over half a million form of pointous were sout to America in 1913?—I have heard it referred to 2254 They grow as good potatous in Galway as in Co.

2255. Yes

The Right Hon, Lord KILLASUS

Mr. Zindsoy. 2255. You spoke of the linen goods going to America as Loverpool and being brought tech past Ireland !--

256. Do you think if this transatlantic rintion wer arishindry, that the loses goods world go moneya-237.7 tany gift you due below the way through good water that the control of the control of the control water than the control of the control of the control on a thir funds water, and the coinc themself proper-ture of the funds water than the control proper-ture of the control of the control of the control of these for 88—11 at was a developing tourness and Gallow for 88—11 at was a developing tourness and \$220.1 if you control promotion has mad the Opst-Section of the control of the control of the control of the habita (Tourness and the Opst-Section 1-No. 100 promotion has made to the section 1-No. 100 promotion has been adopted to be control of the section 1-No. 100 protects the control of t atalinked, the

2891. Is it your idea that the train ferroe would be safficient to take the cargoes landed at Galway for Great Brisins 1—Yes, a certain amount of cargo. I don't look on this as a cargo service. The great hright services won't be in competition with this serinsight services worn's be in conjection with this service, which would be mainly for multi, passagers, and good requiring quick transit, and all trish goods. Here would be a certain smooth of goods frees Great Britain.

2500 With regard to the very beary traffic from Antitics to Treland have you considered how that would be deally with 1—I have answered the chalamons.

would se come your on that matter 2251 The reply that you gave the chairman only dealt with cargons to America. I want to know what you wan my with cargons to returned ——246 Saille Hallig would apply. Any cargo for Ireland would come to Ireland and may fire Greet Britain would cross by the trans ferry. There is another metric in connection with inland transport that I would the to bring under the patics of this Committee. It would especially com-

Mr. M. J. KECKERT, B.E. County Surveyor of Galway, called in; and Examined.

2266 You are County Surveyor of Galway, Mr. Kennedy !-- I am; ser. 2367 I understand you want to say something about providing light railway communication i-Yes 2258 Unfortunately that does not come into our Information of this per and the control of the teaffic of the pert. Do you consider if you have the teaffic these light multings that you would develop the teaffic Shannon b-There is no question about it. Three has been a great increase in the tillage of the country with line of railway, beneficial results would follow to the trade of the nort and the development of Galway and all the destroic around the corresponent of unitary and all the destroic around. At present some of the best tillage portions of these county have no transpert feed-ties exceed earling their stell fit not twalve miles to a rankesy stateou. In Cloggen, Boundatous, and other places a large quantity of fair at larshed, All blots phase a large quantity of sin is limited. All that the hot according to Emiliar any T. He feelings the transport wary better it could be part on the feelings for transport wary better it could be part on the single part of it would be a great convergence for such dustricts.

2359 Year alea is that there might be a light railway or a moter service and that that would bring more trade into Galway and that therefore it would be necessary to have better smile facilities offered at

Mr. Hanzon 2279 And distribution from Galway through the

mend to your consideration the bridging of Lorgh Comib. in this county.

Goald, is the courty

200. This propert—be confricted of a successy
200. This propert—be confricted of a successy
to any years, been absented as a revice of genuintion any years, been absented as a revice of genuinpolitic substy, by the genuinpolitic substy of the confricted of the confricted of
an least negation by the genuin plane also
and the long carellost. Even plant plane also
are fault been regarded by the genuin plane also
are fault been regarded by the second plane
are fault been interested by the confricted of th

dent on local fairs and markets for the sale of their ndsanters. 2263 Is Lough Cornb nasigable !- Yes Lough

2806 Are there lighters running flown?—There is a little steamer that comes from Galway to Cong Tamber as brought down in lighters, and also marble. Even a would be of great use. I may state that the canal from Lough Cherib to the sea is not much used 2055 Thank you very much for the evidence you

2271. And if you had that you would require a light pallway or motor service from these districts which at pailway or motor service from those distribute which as possest have no mal-cond communication P-Ves. a 2573 Are your reads good 1—Thry would have to be attemptioned and improved for a motor service. The confinary horse cert turble has considerably increased

Mr. Hannen. 2273 Can you give us any information as to the effect which the improvement of the locks and canals would have!—I have use considered the question. 2274 Day's you think the efficiency of the Graud Canal at Ballinasios as a feeder for that part of the country would be expedienable 1—Yes. It is not used

2275 Why 5.—The people are getting their staff by think any other goods are carried on it

22% Do you mean to say that the stout comes up water -- You by water i-Yes.

2227. Would the light railway you suggest he of the
narrow gauge i-That sort of railway would not have
very rough traffs to handle
2278 Would not a motor service do?-Yes, quite 2278a Why does the county council not make the roads good enough to carry the traffe?—They are not 2272 I cm a County Councillor myself, and that is one of the mein functions of a county council. I don't see why the county council should shark their job!— They have done their best. For must bear in mind They have done their test. You must bear in mind that the valuation of Gelway is very low as compared with Dublin. 2020 You will not increme the valuation by decreas-ing the furnities: Dea't you think you might earry that remark to the County Council?

2081. I

ted made digitised by the University of Southampton Library Digitisation Unit

Captain Winarase S. Warriman, J.P., D.L., Ca. Galway, called in; and Examined Chairman

2381. I understand that you have shipped marble from here !—Yes, sir. I shipped black marble, that apparently they could not get anywhere class, to apparently they could not get anywhere dee, to America for the bases of the Odumhus Cellege. It had to no round by Glasgow. A great trade in black marble used to enist years ago, to Boston, from this country There was a considerable trade in septentine, and the columns of the Columbia College were made of serviz-

108

2282. What so the extent that you can ship from your quarry!—It is almost unlimited. We used to turn out 1,800 tons a year at one time. We got alaha year gramy!—It is shoot unlimited. We said to term out. [800 one a year at one time. We said with that make lifelized tablet. Our output could be increased consequely with proper transport faultion. 2003. For think there would be a log expert traff 2004. For think there would be a log expert traff. 2005. We will be a log of the log of the log of the bean already gooding it out to would be a good traffer. Which make the log of in black marble to America. We are out about two and a half miles from Galway. I have men our marble even in Rome. It is very fine murble for sculpture work, and it is very popular in New York

Chairman

2354. We will take note of the fact that you think the trade of Galway might be increased by the ship-ment of marble?—Wes. It has gone to Boston and all 2325. You think the trude could be increased !-- Yes.

[Continued

Mr. Houses. 2226. There is a local marble company engaged here? -Yes, 2007. It is a fact that this Galway marble is very popular in America 1—Yes 2888. If the facilities were improved you would be

Mr. Field. 2003. Is it a fact that an American firm owns the Galway black morble quarry?—No, it is a local company.

2330. You really have no facilities for transport!—
It has to go to Glasgow, and has to be transhipped to Mr. Hannon-continued.

Mr. M. M. Egay, Loughren, called in ; and Examined.

2201. You want to give evidence in reference to highe raniways, I notice from your heads of evidence 5—You 2352. You heard what was east to another witness 2395 Is the Sharmon navigation of any use to that part of the Co. Galway !- Yes. 2002 For keen's what was said to another utilizes, who wished to give envisione on the same subject-time, the precision of light nativesy did not come within our to the contract of the contract of the contract of envision about would be a metric of increasing the variance about would be a metric of increasing the variance of the precision of the contract of the said of the peter form Longheus to Woodroot, would will be contracted to the contract of the contraction of particular of the profits of that course, considerable particular of the profits of high values, At one time analysis of the profits of a light values, At one time of the contraction of the contract of the profits of the Mr. Artur Ballier germend to provide more for contract of the profits of the contract of the contract of the contract of the contract of the colon, proposed the contract of the contract of the colon, proposed the company went to the expense, or, at least, induced Mr. Demusen, a Professor in the College here, to undertake Denniers, a Fredesor in the College here, to undertake the expesses, and to get a vecestring corespany to access hard in having the line measured. All the mappens are proposed to the property of the second of the 2328. I as superposed to the second of the second this. It does not come within our reference 1—1 with the cast in regard to the Kennedy's evidence in reference to the result that the expense of Kenping them has gone up for times thin 2524.

Mr Hannon 2394 A considerable part of the Co. Galway runs along Lough Deeg from Portumna to the Shannon's

2296. Would the proposed line you suggest work in as a feeder to the Shannon navigation I—Yee. 2397. And it would mean the reconstruction of the old radiway that was stolen between Portumna and Birrt-You.

2333. Why does the heavy traffic not come on the Grand Canal meteod of on the railway ?-I canno. : yes. 2599. The proposal is to run a railway, instead of the case that was other, to Fortannal—The proposal is to connot that year of the constry mad give it inflient communication. It is 30 frish mites from Loujineau to Euro, and it to Woodford. We were promused the railway, but we did not get the mesony for it from Mr. Baifour.

(This closed the evidence.) Chairson.] We see very much obliged for the info-

(The ditting then concluded.)

THURTEENTH PUBLIC SITTING: THURSDAY, 19th SEPTEMBER, 1918. At the Count House, Belleviller, at 3.30 nm.

MINISTER PRESENT Oblonel John Gretton, M.P. Mr. William Field, M.P. Mr. W. A. Londsov, M.P.

Mr. Maithew Keating, M.P. Mr Walter Hudson, M.P. Mr. P. J. Hannon.

to visit such places as they may consider measury for

Mr Pamer MacNozey, Secretary, SIR ARTHUR SHIRLEY BENN, M.P., IN THE CRAIR,

Chairman | On the 5th of last mouth, the House of Communa appointed a Select Committee for the purpose and suitable to meet the noticeal requirements, and to make recommendations. That Select Committee ap-pointed a Sub-Committee, of whith we are members, to

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19 September 1918.]

[Continued.

Chairman-continued this garpose. We put notices in the paper, stating

Chairman-continue We have come here to find out from those who are interested in this locality about Blacksod Bay and its possibility of becoming a big port dealing with ships from Arreston and with the trade of this part of the tion that you can give us. I understand that the 'Rev. Canon Hospity will give us some information

2000. You desire to give us some evidence. Canon Hegirty !--Yes, sir, I propose to submit a very chart apparent in connection with Blacked Bay as a port of mittee of the House of Commons recommended that mittee of the Herms of Commons recommended the authinishment of an "Express small and possenger recte-lativent English and the Colorisa, via Britand." This Domrittee selected Blackoot Bay and Halinfer, Nova-Soris, as the termins of the "most expeditions, the whole and the chements route." Later on the Mol-bourne Minnetry in EEG, advanced the came scheme in order, as they stand, to promote "financial, cont-cide, as they stand, to promote "financial, contbearing Million ; in control of the stated, to promote "financial, com-mercial, military and political intercourse with our Columns." Since then several Colonial and Imperial

Collision. "Story the overall Christian and Dispersion Conferences have descented and approved of an all incombersons have descent and approved of an all incombersons are descent and approved in the control of the control of the conference of the control of the control of the conference of the control of on the North, the Black Bock light, 280 feet above the water. In has a perfectly sheldered area of over 5,800 acres, of which the local depth is more than 200 acres, of which the local depth is more than 200 follows. It is practically free front fog, and has no nelse or sandbanks. Nature has very really endowed it Now, when we are amazicasty locking forward to the is Now, when we are arrivally looking forward to the Pailmennet of Main and the Bedochton of the world we be a second of the second of the second of the Bay for federating at least the British Eugene. As autober of other witnesses. I shall not federate to hear a surface of other witnesses. I shall not federate the witness by the label Bedoch of Billpain, and which enbroose substantially energy laing that can be said fed-sarious the first of the second of the second of the Helschool Bey. In consumers Bedoched with Galdway,

powers already in existence for the construction of this involver and for the relayey concession; at with the involver and the time relayey concession; at with the real power of the relation of the relation of the involver and the relation of the relation of the involver of the relation of the relation of the concession with the heat unterest of the district. The concession with the heat unterest of the district, at 3 kinn; which is a reality the next tension of the power of the relation of the relation of the tension of the relation of the relation of the relation of the tension complete with the other world and ner for the tension. The relation of the substance of the relation of the relation of the relation of the substance are required, and it of the recent proposed of the substance are required, and it of the recent proposed of the substance are required, and it of the recent proposed of the relation of the substance are required, and it of the recent proposed of the substance are required, and it of the recent proposed of the substance are required, and it of the recent proposed of the substance are required as the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relationship to the relation of the relation of the substance are relations

Very Reverend J. J. Carox Hessertt, P.P., V.F., Behmellet, called in; and Examinol. Chairman-continued

ten of the traffe. I should say the traffe in a normal year would be about 9,000 tons. Mr Honn

2002 By steamer!—Yes. When there is the tradic by road and I cannot really estimate that. There is also tradic by a hooker between here and Achill which is also very inconvenent. I should shank if that traffic was put at 1,000 tons a year it would come very innihe was per as 4,000 tons a year it woose occu-cione to the mark. There are outlying distinctle, the traffic over which does not pass through Belimnilet, and I cannot open for them. The Erris dutries was one of the first in Ireland that was scheduled in Ireland in the mass of Mc. Arthur Edifort's Chief Secretaryship. Erris was one of the first detricts in Ireland scheduled for a light railway and we are still without at present. Now, as the Government seem disposed to look after and decelop out-of-the-way districts like

to look after and develop ont-of-the-way distracts him-this, we hope that you will sean our gentiated by being the mer who altimately succeed in pectualing the Geretzment to studde as to entry on our life as a circlised portion of the examinating. 2005, Supposing a port should be founded been, her would the labour question assess—would here be suffi-

would the labour question stand—would there be enfi-cient jaious zero—liven to a gaza detail of lobour country labour zero—liven to a gaza detail of lobour for the Barjari and form Aribilla of Perray to zero. 2004 Annually—Ten. The number may be seen 2004 Annually—Ten. The number may be seen 2004 Annually—Ten. The number may be seen 2006. Annually—wous go brow Aribill. Seen whose the migrants po to finispend and Scotland there is still. a very large question for lobour that could be etitlised a very large question for lobour that could be stilled 2005. Supporting the Transoulation knows came in here is it the finisp here that this should be a pro-

here in it the feeling here that this should be a port for the lunding of passengers and the sheatage of matte and of protests—small througe—and that the heavy sarge should go to Leverpool—The Saute here is to make it, ultimately, a termines, and, profiling that, the wish would be to have it as a port of call. The great desire is to have it as a termines, and flushbod would be a very good distributing cantes.

that is my equation.

2007. Do you think you would have a good ontitle exporting business from here!—There is a quatienam connected with the estile teads here who will give you. miornation on that quotion 2000 offer who will give you miornation on that quotion 2000. Do you leave the distance from here to Liverpool F-I campt give it to you definitely. I alculd my about 350 males from Blackood. Mr. Diedeny

3009. I have not had an opportunity of lecking at this pempidic which you have handed in: I should his to have a copy of \$0 -1 will by to get you a copy. 25(I). Is those any astimate as to the time, say, from London to Blacksod b-Yes, it is given in the pumpidic I have handed in: I shoult the rativasy time is about

2311 About the local services, how often does that con run from Sligo now?—It runs at present once,

and sometimes brise, a week.

2312 Is that all F-Yes.

2313 He used to run three times in suggest and income in suggest and in the state of the stat twice in winter - Yes.

2516 They have refused the service !- Yes, because
the estudy has been reduced. There is no mesonour 2315 I suppose it is a question of saving coal prin-cipally i—Yes.

2316. There

49 September 1918.7 Mr. Hannon.

2515. There has been consequable undustrial deve-Segment on this part of Irriband during the loss 20 et 21 years—The Bose ministry as the principal industry. If years—The Bose ministry is the present all matters at 2577 ANOI 1874 fischilates for oper transport to 2577 ANOI 1874 fischilates for oper transport to 2577 ANOI 1874 fischilates for oper transport on the property of the p lapment in this part of Ireland during the last 20 or

2019 The people, given an opportunity, are maked to put their back into the work?—Yes There are no keeper workers, if they can see that they can make

no keeps working, if they can see that they can make anything of it.

3820. And you are quite satisfied that the develop-ment of this sharbory with railway communition in, wards would have a marked effect on the whale area ward fillations.—On the whole of Commanylet. In the first place it would have a very marked effect, on the first place in would have a very marked effect, on the development of Errie and the surrounding district Undowidedly a train service would give us a market for as only now he can use the proof the library of the corridor of the greath boath, owing to the last that there as not proper sheller for larger vessels, and there are no ratios scalable for the freeh field trade.

Sell The paren in this parent are absolutely select the control of the contro

2322 As a matter of fact there are gross possibilities for the fishing industry of this part of the Mayo count? —You The Fishweed travelers and vassals from France used to come to the vestor count I know that we had to appeal to the Department of Agriculture to keep the Fleetwood tenwhire off the coast. They were

nees. 2005. It is the unanignous feeling of the people of Six peed of the country that the development of this would have a nacked office on Pinks property as a wealth of the nacked office on Pinks property as a wealth of the nacked office on Pinks property as a wealth of the nacked office on Pinks property as a wealth of the nacked office of Pinks peed of the nacked of the nac Salars of good intentions on the part of the British Government !- It has certainly safered from the fact

earron one.

2026 Almost every Chief Secretary, from Mr. Arthur
Belfrur, desired to do structhing substential for Error?

—They have vasted us and left us under great expec-\$500 But the expectations were never realised?-

Column Gratten. 2327. I would like to ask a question about the local infile now going on. I think you said the steamer curried about 9,000 tens or thereabouts — Yes, I think the expert and import by water was about that, 2308 Book ways — Yes, 2309 What commodition does that commit of f— Foodstuffs, tea, sugar, and everything commencially

handled 200 Are the feedstaffs brought here or seat from breek-They are proposally invogable here beek-They are proposally invogable here. White goods do yet one dawey by electron 1. White goods do yet one dawey by electron seat of the season of the seas

Colonel Greiton-continued what is sent by steamable and certical over the read from Rallina. Of course I am not inclining cattle or page or sheep. There are gentlemen here who will give oridized with regard to those. 2333 Is this direct or part of it sebainled as con-gosted!—The whole of the barray of Erris is con-

gented.

2334 Would this district as a whole be able to pro-duce more, meloding the fahiry industry, if better fouldities of transport were provided. Undentedly,

Mr. Hudou 2335 I think you mentioned that the building of this new post at Blacksod Bay would necessitate rail-way categogous i—You. way entensions I—Yo.

ENO Dol I follow you accentably when I got its
unpressors that you estated that the rankway line that
is projected, and for which Patliamentary powers have
been obtained, would council with the three man rad,
way approve of the country I—Yos. Two at Callocost
and one of Rillias. 2007. How many miles of new milesay would have to be built to make this connection.1—85 miles and 45 2335 The main connection would be with the Mid-land Great Western and the other main lines of Ire-

listed 1-11 would compost directly with the Holland Great Western at Killala, and with the Great Ses-thatn and the Holland Great Western at Collection and the Great Northern, I think, has running powers Mr. Field.

2009 I take it that your view is that if this roote was catchinhed it would be as much benefit to Great Bestern as to Ireland?—Candolly my opinion is that that the Coloniss—that Canada, Australia, and New Zealand—have been present this matter for yours on the English Government. They have effered substanthe English Government. They have offered authora-tial subsidies and the All-Red Boute would have been established for a considerable number of years had we have been a commentate number or years as we will be a commentate of the control of the contr the English Government given a sufficient subside mended this route him, and a few yours inter consum British Musicity recommended the same route, and they recommended it because they considered it neces

Estime.

2549 This, I will take it, is your opinion—that it is measured to have a transablantic station on the west coast of Ireland, and Elackeed is the best placet—an decidedly of opinion that, if there is an All-Red Rocate established without Elackeed being selected as the feat, have not be Environment gift, without left of the feat, have not be Environment gift, withgreader dis-Route established wishout Blackwor nearly scheme as the first bey on the European side, elitimately the oxumorral interest will catalysis Blackwork, because there as no other bey in Burope can compete with it owing to its workerly position, its size, its shelter, position, and its security. Expert evidence has been given on this subject

given on this subject.

284. I Table it that you don't advocate it as a visse for the very large steamers which come in and disclared their engages.—Well, in the very beginning we could not expect that. Ports must develop; but our desire intak, ultimately, it would be a termine, 2342. That is for much, goods and passengest—Yes.

2345 From the local point of view do you think you would have a sufficient amount of cargo available to go across the Atlantic i—Unfortunately, I think at

19 September 1918.]

Very Reverend Canon HEGARTY.

Mr. Field-continued. create we cannot produce sufficient local earge for one

of these reasets.

2504. That is a very important point, you know i.—I.
know it is. Wall, we certainly county produce a suffigent some cutph.

2045 But developments may take place †—Yes, they
em take place here as well as discolute.

2045, Yes are of opmons also that it would serve
lead as well as Importal purposes to have this port
entithished here!—There is no doubt in the world that does here and a considerable amount of goods rep-phot seen to the vessels for the upknep of the voyage-regetables, eggs, butter, ment, etc. From Helmullet regeocices, eggs, nester, ment, etc. From Helmullet we export, by past, more ment than any other town I am aware of in Ireland.

Mr. Fidd-continued

2347. You cannot do it on a larger scale on account

2348. Can you tell us how it is that, if you have a 2248. Can you tell us how it is that, if you have a Ball in Parliment and if you have percases from the Colonus, this port is not going sheed—what is the delay! Have you been spirating in commonities with if? —We have been spirating about it, unfoutbodly, and the red drawbook is that the English Government have not officed a sufficient suboidy to any steamaling com-

2349 Did you keep knocking all the time, because if in don't knock you will get nothing !--We do keep knocking, but the door is sound-proof

Contrasts | We are very much obliged to yee, Cancer Hearty, for the information you have given us.

Mr. Benyago Eday, Ballion, representing the "All Red Route" Company, called in; and Examined.

Chairman. 2500 You with to give us some information, Mr. Egon 1-4 have been authorized by Sir Thomas Tro-bridge, of London, to appear at this impury as the exponitative of the "All Red Route" Company, and suppositative of the "All Red Rosto" Corpusy, and Joan's to hand you, are, the selegram of architecture My propose will be best sowed by soying that I quite entire all that has dropped from the lips of coron Hegarty. With regard to the railway line not have a queried up before this, I would like to state that County was nother weak in the resource has N. commonwerty with effects would find to seek the Committee on their work at the promos, but New Contains are suffered work at the promos, but New Contains an uniquely first cutyring the must. Onnech and startishable den newesty marroune from sensorst they great the contains an uniquely first cutyring the must. Onnech and of the promotion on accessar of a fill long promotion of the promotion of a fill long promotion of the promotion of a fill long promotion of a fill long promotion of a fill long promotion of the has consider (Seeing, 1936) for Robert Westbangton, saided the Remarker of Stacking Orden to allow bin 16 days to lodge the mony in connection with the 1930 Bill that was being personed in behalf of Gal-ny. This was an unprecedented thing to do, but the arround to positive was exactly been according to provide the positive was exactly the same—the moving was not betcherring. If the Galvary scheme had not been lowagily branch, the premisers of the All Rob Darks would have been at work long ago. The pro-meters of the All Rob Bone has drawly specified

250 COO on the scheme
250 You represent here to-day the "All Red
Rente" Company !—Yes Bosto "Company 1—Yes 5323. Let the idea of the Occapany that Blackard would be used as a port of call for the hig steamers, ast that facilities would be offered for local tried for sensil steamers 1—Yes. The rices that at about the a port of call, in the first instance, and after a time density into a terminal port.

a part of only in the loss district, one does to wear a part of the year as to their could be a part of the loss o

Mr. Pield 2006 Can you give us any other reason than the feet that Galway has been presenting its achieve to account for the inactivity of the prosectors of the "All

Mr. Field-continued Red Rozte" scheme. You seid that Galway came in, and that, on account of that, your company did not go on with the work i-Yes.

2337. You allowed the Bill to remain and took no action in regard to it?- The "All Red Boute" Comscore in regard to 107—The "All Red Bonto" Com-pany have get Parliamentary powers, and they have get similar powers in the Canadian Parliament, and these powers are still in existence. They have been

2538. And is it only the opposition of Galway that prevented you from going ahead with your scheme?—You The promoters thought, it the Galway scheme had Parlimentary nevers financiers would not agree

2559 Are you prepared to go shead with it now under existing emdireons !- 4 am of options that they

Mr. Zundary. 2560. When do the existing powers expire?-- They have not long to run now, but application will be made to Parliament to revive them. I think they expers in July next, but there is at present a movement on

toot to have the powers perived once more. Mr. Hannes. 2361. You have considerable business experience in the West of Deland !—Yes.

2362 And have been a representative on various public bodies?--Yes. 2365. And you quite agree, I suppose, that the agri-cultural prospenty of this part of the world intgoly depends on transport heilities —It does 2364 And it is a notogious fact that half a cen-tury's progress of the district has been retarded because these taulities do not saist - 206.

2365 Both by land and sea !- Yes 2366 And it is the view of all the local governing bedien in this county that some such facilities as we are inquiring into ought to be afforded 1—Yes. are inquiring into oright to be anoused to free 250%. And the County Council, in order to give 250% as the transport of the County Council, in order to give 250% as chance, have passed a resolution guaranteering a certain such as in the overall of seconds.—The whole county of Mayo committed itself, by resolution, to pay a certain sum of 2000cy. Districts that would be expressed to have a greater detect, from the exhaust

than others have cast a larger figure in the taxes upon theasselves. That goes to show how anxious the whole County Mayo is for the All Bed Boute. 2368 Seposing that a Trainablattic port was established at Blackood, would you have the old ruc-tions revired as to the line of rathway!—No. There is absolute unanimity in regard to that now. My Keather.

2360 Is the County Dound! guarantee to be given only in connection with the Blackeod route!—You, only to the Blackeod route. 2370 I Mr. J. McGreener, Charmon, Belmullet Board of Guardians and Member Mayo County Council, called

2870. I understand you are Chairman of the Board Guardana and a member of the Mayo County

2371 You have heard what Canon Hegarty and what Mr. Ecan sand !- Yes. 2372 Are you an accord with them !-I am quite in

2072 Are you m accord with them!—I can quite in accord with everything they said. It addone absolutely everything they said, in fact, I will go further—adhough it a very hard to go further—and speak of some things that Canon Hegardy left partly massid. I would life to tell you that the area of the broady of Erns is 250 against miles; the perculsions in 1600 was 1,060; the volusion, \$21,441.28 xow. In 1901, it 18,865; the valuation, \$11,461 lbs now. In 1901 it was £19,518. One penny in the 2 produces £47. The rates are 2s 7d, on land and 11s 9d, on houses. I mention these little details fearing that in your Report you might recommend sampling libs a beremail amonius than, hattle desiral forming that is wore Popularian on any service that you guident the approach that the second of the stormiest weather.

SWS I may say that we have been at Galway and we

2374 This is not a Court of Law. We want to out information about this place, and we do not require adverse remarks passed about Bincked, both in Gal-way and in Dublin, and with a view to disabase the mind of anyone who entertained those views I would wen't keup yan one minute. Galway has long been abandoned as a sale port were for vessels of undersite abandoned as a sale port was for vessels of undersite control of the sale of the sa quay having a depth of 12 feet of where alongside at high water spurnes. The cocks dry two cables—over a quarter of a mile—free the share or the waters along The small harbour formed by the quay is dry at low water and only used or coasting boats. "There is Mr. Field | You are not dried up, anyhow.

Wiferen Such is Borns, the proposed supernic illumative to Gulway Port by the promoters of the

2075 Can you give us some information about your own place i—The idea apparently being to excavate un-the roles at Banns a basin of, may, 400 or 500 axes to accessmodate vessels of 46,000 or 55,000 tompage, 18 to the violence of the Atlantic stooms and other in these get no Perliamentary powers, no prometing con-pany, no practical support of any kind.

2006. The Galway people are not here, and we only

want information from you in reference to Blacked Bay!—Very well. The Blacked scheme has the approval of both Houses of Parliament, the Corporadepend to be relied and towns of Fedand, Colombes of teen of the critics and towns of Fedand, Colombes of Commerce, and Members of Fedanders of all shades of politics. Publishers have powers have been granted for the construction of the harbour and a line of valfor the construction of the harbour and a line of rail, way connecting it with the three systems of railway way connecting it will be three systems of railway and Hadriar as 9,008 miles, no that stanner ratum; at my 25 knows in some can accomplish the vayage or three days and eight beaus. By the Blacksod rates three days and eight beaus. By the Blacksod rates three days and eight beaus. By the Blacksod rates in four days, and, as Elisaksod it 71 railsh assers to Hadriar than Galowy, possengers from Ancreas would array scotor at Dulliur is Elisaksod than via Gallew, surros conce at Dellin via Escalsod than via Galeny, Solvivilationing the leager datamen by rail Fe is remaining part the period of Blackool is mange perition or port in the British Illes, and "in," in the Delto of Wellington's Salied Coronattee of the Home-ton of the British Illes, and "in," in the Delto of the Home-ton of the British Illes, and "in," in the Colonia of the Constant, or an experimental of the British Illes, and "in," in the course with our Colonias". Other ports may have eventual the British Illes and the British Illes and the Salied sections excluded by selfish notices and commercial electrons excluded by selfish notices and commercial colonsy, backed by influence and the influence that wealth confers, but Blacksod stands envelod and where the control of the "Leastana," with its variables earge of po-theman lives, would not be sunk an the costs of Ook-and Kerry. The greatest positified amongst us on reedily believe that the vast majority of these would be enjoying the comforts of home or of batchers. In Dablat.

19 Sentember 1918 1

Chairman-continu Belfast, aye, or in Glasgow, Carisde, Lawspool or Landon, when they found thresselves helplously strug-

Grandesten in the Billy. Agent has desired as Maria (Fig. 1) and the second sec that peint, I would also like to hard in a latter written by Ser Cyrette, Budge, dealing with the selection of Elackoof Ray as a port of arrival fee shape bringing carges to the United Kingden when the British Engine neight be unvolved in a martines war. This latter was sent to the Frees, to the Seeds of the Initial Generatori, and, of course, to the Ragilah Cabinet. I would pern of you to give it year proctical grapathy

I would pray of you to give it want practions sympassy. This letter coming from such a preconsige would, in Scall, quite justific this Committee in recommunities that no post but Blacked should be selected as the site for a Transolllambo port. 23% I am sure the Committee have very much ecourse nearing your coopsint actives on behalf of Electrod, and quite recognise that you are perpared to light for Blocksod Bay against all counts. On you tell us the actual distance between here and Lifser-pool I—I cannot, but I think 205 miles is the actual

2009 How many more rules would incoming steamors from Liverpool to Halifax have to travel by calling at Blacksof Ray!—The idea underlying the

Mr. B. C. Canson, Trader and Farmer,

Opinson 2385 I understand you see engaged in the cattle burness — Yes, sin. I propose to give evidence as to the quantity of live clock that turnels by road between this town of Bolimalet and Ballina. About 10,000 live stock turnel between this town and Ballina yearly, of that number shous 1,000 are page and 4,000 steep and that teme was, of course, great. The dead most trade is a big beginnes here—between 1,500 and 2,000 sheep is a big beainess here—between 1,800 and 2,000 sheep-are such by parced post all over Ireland and English diving the year. In a number of cases a lot of this resolt persistes on the yearroy owing to delective postal service between there and Enline. The secress from here to Ballina is very poor. For the lest few years there has been a moter service to corry ranks and part. own to come a motor service to corry maths and pas-sarpers and light burgage. Previous to that there was a ivo-horse our. This motor service started fairly well, but it seems to bive share gone free had to wern. It cannot take passengers or periabello stoff. This OTH,

[Continued. Mr. McGrenin.

Chairman-continued evidence additional before this Committee is not to me from Liverpool at all. The idea is that there should be a line of malway from Blacknod to Collector, thomes

be a line of rathway from Blackzod to Goldenovy, themse to Larne, and there to Stoblaster, or little to dark or the total state of the take this cauge. That is a matter that we would like to get some evidence about I hope you will mider stand that all this Sub-Committee can do in to tell our mean. Committee the miformation we have product on regards the fundamental to the Castler of the Castler of

Mr. Hausen

2561. No. I don't think we had that in evidence !--

correction. Size. We had an expression if their practical spra-pathy with any part sectorameded, but no geometric pathy with any part sectorameded, but no geometric in the sectoral sectoral sectoral sectoral sectoral results of the sectoral build a short has of nathway life wanted, they could build a short has of nathway life wanted they could build a short has of nathway life wanted have a reasonable of practically all the trade-lation for which are the sectoral sectoral sectoral sectoral sectoral sectoral sectoral sectoral sectoral part sectoral secto

Mr Field.

2883. Is it year options that Blacksed is more pre-ferable than any other route—18 is; not only that, but I can address practical figures to prove that it is surroughed by any port in the Buttin Lides 2824. Would you be satisfied, at the beginning, to have Binciscol as a Tornshunke port for resilts and passengers and light traffic —Corbandy.

Belmullet, called m; and Enumned. Chairman-ecaturasi

Chromosomer Comment

March Comment you a very large quantity of staff was left behind here, neve no way of getting any personance selft away. We cannot get rabbate eway regularly, with the result that last year about 2200 worth arrived in England unfit for human food, oner What about you mail service!—It is errated

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Mr. Canson [Continued. Cheirmon-continued, Mr. Lindsoy-continued

2300. It is by motor car?—Yes, but it is very un-certain. It is supposed to be regular, but some days it breaks down, and we don't get any mails at all 2389 What is the condition of your roads !- Paur

2390. We had a test of one of them this morning?-

They are poor in parts.

2301. You trink if the port was built that there would be a good deal of trade going between this port and England and Scotland!—Yes, I believe there 296 Both expert and import3-The import for local commuption could not be very goant 296. How about distribution in the neighbourhood? -Of course there would be a certain amount, and it

Mr. Lindsoy.

2004 With regard to the motor service, do you think at is on account of the roads that it is not a success?— The roads are not good 2395 Do I understand the motor has broken down?

\$306 Is that owing to bad roads?—It is brought on by had roads you advocated taking atall by motor with the County Council — You could havely reads the roads to carry heavy traffic. It is a beggy road 2508 You said the cross details at lake purergent?

Occasionally it does It is supposed to take pessen-gen, but passengers are often left behand seen, but passengers are often fell behand.
2009 White a recognishe for the reasoning of the
2009 White a recognishe for the reasoning of the
thry one root Feel Office-occold care. This office however
to the tween beaution to the chap persons, but a get there
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unsatishle way for passengers to go.

2405 Does it call at Balling - No, it calls nowhere Mr. Honnes.

2404 Feldspar is very much sought for at present? I believe so. 2405. Why did the minning come !—The owners could not get the stuff away could not get the steff away.

SiO6. If the trade was rafficiently large they ought
to have their own means of transport!—There is no

quar that they could get a large boat slongede 2607. In there a large formation of feldspar here!— Yes. 2008. Is it your opinion that it could be developed?

—Yes. Those is planty of 9.
2009 is there anyone who could give us expert
advice about its possibilities 1—No.

Mr Lindsoy. 2010 Where as the feldspay located .- About a mile SMID Where or no security possed.—Accor a map been here and further or, all over the place. SMIL What would you soppost as a receive apart alsosether force the Transilanto porti—To open up the country by malany. We are absolutely cut away from the outer world integether. We cannot get any

Mr Michael Heary, Merchant, Belmullet, called in ; and Examened

Chairman. Chairman-continued. 2435. You want to give us some evidence, Mr. Healy? 2457. Do you agree with it !-- I endorse what has 2656. Tou have heard the evidence already given !-

9430. So then it is tail communication you require a connection with the temport of your cattle !-- Yes, that would be a great improvement.

9421 And your contention is that, at piezent, live stock suffer considerable detectoration by being driven such a long distance by read?—Yes. They deteritorie

railway would also be required.

-By rail

S419. Then it is not of the question !- You 2022 Penhaps not so much, but they certainly do

2412 Surely yet have considered some definite scheme of dealing with the local industry !—This rad. way is wanted to open up the country

2413 And the pier is required l-This milesy would of course open up the country and get produce away that sometimes has to remain for a week or ten

2414 Where would you suggest that a poor should be built?—Of course, if we got a railway, the pier would be built in this direction, whose there is deep water.

At present a large vessel campet get alconoside the mos-2415 From the criticage you have given, do you think

2416 I want to knew about the lave stock trade.
What is it exactly you want in regard to the trueport of live stock. Do you want a wessel to bring the
cattle to Liverpoot, or covery them by rail to Bukin!

2417 It was not your intention that you should have a cattle boat going direct from here to Leverpool?—I don't think it would pay.

2418. How long would that journey take !-- About

determents I—res. 2023. You think if you had their rulway communica-tion that underbiddly your agricultural produce week be considerably improved in value I—Yes, and it would be an encouragement to people to improve things 2024 It is not a fact that the great majority of the live stock that go from that distinct are stores — Yes.

are stook that go from this destinct are stores?—Yee, a big percentage of them. 3283 The larger poventage?—Yee, 2295 You have very little stall feeding?—Yee, people stooped stall feeding because they could not got the earlied away.

get the catta away.

S437. On account of the delay in getting fut stock
accoss 1—Yes. They are often left a week in Gligo, and
lembs also. They are worth very little owing to extra common and they are work very little owing to extra expanse and depressation.

MEE Your contention is that the lave stock, which is really the principal industry of all this area, soften commonly by the want of quick communication?—

Yes.

\$429 And you are of opinion that not alone in the case of live stock, but in report to fish and other commodities, you cannot get three ways —That is so \$350. You are nearly like Robinson Crimon—We are his people in the Cumbial Islamia.

\$431. You are, of course, in invoir of Binckeol Bay as a Translatinity get! —Tex. Colonel Gretten.

26X2 Tox know this country well—Very well. 25X3 I gather from your evidence that from no of opinion a railway would serve bool needs more effectivit than a ports—This relivary would open up the distinct. We want a rafflway bealty as the country that would avoid boy land!—You would have to go through a copinio amount of beg land no mature with mosts is MSS. Tou know this country well?-Very well

[Continued.

Chairman-continued. that respect, to what the other witnesses have taid us? —Well, of course, I have a little to add. The imports and the emperts from Westporn to Belinmillet in pre-war tense was marshing like 50 costs a weak. The expects

were about 50 tons Mr. Hennes. 2020 By holders)—Yes. Of course, from want of testinary inclusive we are altograther handlespied hore on Exists and Belmilles. For metalese, in regard to the sign features, this districts is a way here signed of the sign of the hore to ward on the "Taster" service. On a rising wanted we have to by ay a very halp proce to compel-vatile our opponents. We have to hild over for a work, and by the kinn office are kinded there are to see

2440. You are fully convenced that the pince meeds

more facilities for teamsport than it has got at the

more harmore for tearspers teas.

2441. You believe that the tands of the place and
the prospority of the distract would increase if you had more facilities !-- Certainly , that is my opinion. Mr Field.

2442 Are you mainly concerned with the egg industry !-Yes. SMA And the eggs are treated exactly like the eattle?—As a matter of fact, the eggs are much worse, because they are perishable.

2004 And the result is, very often the eggs are stale by the time they get to London!—That is so. ty use ume they get to Loudan — That is on.

2005. Here you many leases in that way — Yes, year
after year. For the last month I den't believe there
is a bayer at the egg trade in this district who has
not surfaced considerable loss. on suffered constitutions to suffer realway would re-

Mr. T. J. Renaw, Landowner and Farmer, Behaullet, called in; and Enamined Mr Field-continued

2047. You have heard the evidence that has been given i-Yes. industry, which was a very considerable industry in

3448 Am you quite in accord with it !- I are. 2449. Would you like to sid mything !- There is not very much that I can add. There is a question relavery much that I can add. There is a question rela-tive to the province that may be shopped from that distinct. It may come as a surprise to the Committee that from the shortly we have been as the commit-tee that the committee of the committee of the consequence, between in that respect owing to the desicts of termippert. This during it were made in the growing of potatous. We could considerably develop the cultivation of setty potatous in the distinct if we had facilities to get them away to market. Last year a respectable quantity of potatoes left the district

Mr. Honors 2650 On what date?-In May. The date is the 23rd 2000. On what date l-4x May. The date is the 23rd of May. That is only no can is elasted district where the trade has been taken up. If it had been taken up generally throughout the hardy I am sure we would have been able to get the prolators to the market as an earlier due if we had better chelifies. I don't think it would be too much to assume that we could raise a lit would be too much to assume that we could raise a considerably larger quantity of potatoes if we had facilities to export them in quantities suitable for

larger steamers

Mr. Field 2451 In regard to the live stock trade have you say-thing to say 6-1 find the stall feeding is an absolute indice. We cannot make it pay, and we cannot get the property of the stall bendung as a short-less than the stalls are related by the stall type while the stall type while the stall type while type the stall type and the stall type and type the stall type type the stall type the stall type the stall type the stall type type the stall type the stall type the stall type the stall type type the stall type type the stall type the ago, this district experient a tremestors quantity of loop. In later years that trade has gone down. I cannot give you the solval reason, but I are sure that exist transport facilities would go far to revive that 0.178.

reason they had to absorbed work here was that they could not get the stuff away in sufficient quantities. They might get 10 tens in one sating and 30 tens in another. They could not ship it is small quantities like that, which would not pay. Otherwise they took me it would be a very responsible infastire beron. Chairman I We are very much obliged to you for the peofit information yee have given as Mr. Zindery.

2452 You realise, of course, that the construction of a zulway or port would take a considerable time?— 2455. You don't want to want for transport Incilities until that is done if you can have it otherwise. Do you know that either the Department of Agriculture or the Compacted Destructs Board subsidies moles services?

2454. It could carry a lot of goods?-To begin with, 2655 I am talking of eggs?—We could never have a motor service fit to one with that traffic. Our reads

mercer service its to cope with that triffic. Our roads are not capable of beavy traffic. 3456. Ask them to look into this matter—I mean the people in your district?—Yes. Mr. Hudson 2007. You heard of the user that has been suggested?

2458 You agree that it would improve local requirements 2-Yes, quite. Mr Kesting.

2650 Can you give us any idea of the quantities of aggs, poultry, eattle, rubbits, and so forth which are not to the feed market through the absence of transit lost to the freed market unreagn the accence or cases— farilities I—I could not do that.

260. Would you be able to give or anything like an estimate!—No, I have not been in the trede — A gentle-num fact has just bold use that he but £21% in six 2461. In view of the need of food, I am sure it would seed, in view or set need or rood, I am sure it would impress our Main Committee very much if you and your triangle would draw up an estimate as to the quantity that is lost for want of transit facilities !—

Mr. Field 2002. With regard to the improvement of the bread of cattle, I notice that the sattle here are very much improved !--Yes.

2963. Have

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Mr Field-contraged. 265. Have you had a difficulty as emporting precessor bulls from Dublin to help improve the cattle?

—Yes

"Yes You have not anything life the same oppurtunities of improving the breed of cattle in this district
as exists in other parts of Iroland!—Decadedly not. 2005. And the result is that you have not an im-provement in your live stock to the same extent as if

there were better transport feathbest — That is as, 3846. You are prevented greatedly from improving your live stock and also from Oblishing the best market conditions in Dublish and second the Channel, owing to the condition of the condition of the condition of the 3847. That he a very sections maker — I is 3848. With regard to potations, in it not a fact that I you do not get early pointons to the market within two or three days they are all Josephson in value— You

must get them to the coursest in a perfectly fresh 9459. If you had any reasonable familiates to ener petators to London you would be able to compete with other districts?-Yes 2470. And that would be a valuable acquisition to

this district !- Yes.

[Continued

Mr. Field-continued 2071. Are you certain of being able to produce potoes for the market as early as the end of May 1. We 2072. You are sure that if you had better transport

facilities you could extend that trade very considerably !- Yes, Sir; we would all take it up. 2075 That would mean a lot of money to this place?

2474. And increased cultivation !- You 2475. And increase food enormously?—Yes. 2476. And the same applies to poultry?—Yes.

present we are out out of the market almost com-

present we here on our plotsly.

2679. What about kelp—that indinstry used to prevail to a considerable extent here i—Yes,

2678. Has that indinstry been more or less stopped?

If has deviabled down very much. It is not, I sup
assembly a supplied by the constant of the constant of what it used to be. 2479. Outside the transatlantic project altogether, 2008. Offsher for transmining project anogeness, are you of spenior that you want railway communication for the development of the agricultural produce of this chatract f—It is essential to the development of the

Mr W. G. Muzrur, Merchant, Belmullet, called in; and Examined Chairman-continued.

Chairmon 2493. Would you like to add anything, Mr. Murphy, as a thousand and one other things, in developing a to the entirnee that has already been given to us !district like this. If we had a railway we know that both the imports and the apports would increase very miderally. I endorse what has been said by the other said. I sim in the general bisidess nere. I hospics 25,000 worth of eggs blast year, and within the life few smooths lost 5590 on them by reason of delay in transit and not reaching the market in time. These was some oridiness given here in regard to foldspar and setimate they have given.

S68 We will take it that you endorse all that has been said by Canon Hegarity and the other witnesses examined here?—Yes. office. I am owner of a property in this district on which there are headreds of the unrels of tree. silica actually in sight. A symbostic leased this place from me in 1913. They put up machinery in 1914, and large industry. So great were the needs of the Govern-need the other day they got some of the feldspar that is beyond Behnullet carted into Belnullet to the is beyond Belmullet carted into Belmullet to the vicemer, taken at a ligh rate of freight to Slipe, and by rallway to England or Scotland, at a very high rate, to make potash and other thram they wanted

2482 With regard to the feldspar, is it that the Government were obliged to transport this feldspar by various reates?—Yes. 2865 Did you write to the Government that you had plenty of feldspar as the district, and that what you wanted were facilities for its pransport!—No. It was a private company that went into this matter or 2934 They were supplying the Government!—They ever supplying the parties that made munitions 2935. If there was a representation sent from the not send supplies owing to the lack of railway facili-ties, at night do good !—It might

Mr. H. S. Brynnau, Landowner, Beltrallet, called in ; and Examined Mr. Hudson-continued.

2406 Be you wish to give us some information !—I only want to say a few words about the deldayer. I even a landlood fiving here. One company has not a lease of minerals on my estate, and another on an adjourning estate. An expert told use that there were unlimited quantities of feldings in the district surcolling my land, but that the whole quantum was a question of transport facilities. They are Rivinis a poor locality. I don't think it as, if it got har play, it is poor locality. I don't think it as, if it got har play, it is poor locality and the communication. There are also other minerals in the districts. There is from an area of the control of ore on my property that could be developed. There is a splanish grante quarry at Blacked which could be developed if there were incliffed by transport.

2487. What kind of granite is it?-It is very fine 2488 Does it take a polish !-- Yes

Mr Hudson 2489 Can you tell me as to whether the eron ore could be quarred i—Yes. It as just opposite to my home on the surface. It has sever been torted. There was never any market for it.

2420. Have you say idea on to what depth they but I don't know how doop down it is. 2001. Is there a general spinson that there is a very large quantity of it t—I don't think that there is any spinson at all formed of it. It is just there it repaires opposit to develop a thing like that, and we Colonel Gretten. 2402 With regard to the feldspar, has any expert

opinion been got in regard to it?—This grathenan who was down about Frenchport and that under who was down about Procesport thin thus under present conditions it would not pay to develop it. 2693 Was he an expert?—Yes, in regard to feld-

per, and stone one too 2004. What is his name?—Mr Crelling. He sepre-only Thomas Ward and Sons, Sheffeld. I sent him Mr. Pield.

2405 Has any geological survey been made t—No. If you found that it was very valuable it would be no use, as there as no means of getting it away. Want treatment facilities stops all development. The transport faculties stops all development The "Turbar" and motor service are only encases for

2495. Apart

Mr. Bregnatt.

[Continued,

\$596. Apart from the rallway, if you had a good pier goodl you find commodries to get till empose to sund sway?—M. Creding recutioned to me that his com-pany voild comoder getting this stuff away if they had a pier convenient to the quarry at Frenchport.

2607 How near to the quarry could that pur be !— The nearest point to the quarry where you could have a pur would be about a quartey of a mile

age! What depth of water could you get?-It is a

good douth. It is, however, rather dangerous to get in. 2602 How mean to the quarry could a prer be put that would be available at all times 1-About three

Chairman.) We are very much obliged to all the wri-nesses who here given evalence. We will make a repeat to org Mam Committee and tell them what we hard here in Belorallie.

(The Sitting then concluded.)

FOURTEENTH PUBLIC SITTING: FRIDAY, 20TH SEPTEMBER 1918, At the Saigo Harrour Overer, Saigo, at 2 p.m.

Colonel John Gretton, M.P. Mr. William Field, M.P. Mr W A Lindsay, MP.

MEMBERS PRINTED Mr. Matthew Keating, M.P.

Mr. Walter Hudson, MP. My. P. J. Hannen.

Mr. PHILIP MACNULTY, Societary.

SIR ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR which we are members, to investigate and report upor

Charman) May I say, first of all, why the Sub-Cressattee is here? On the Eth of last recalls the Forms of Commons appointed a School Cressative dir the purpose of considering what steps, II say, it is domable to their to develop and improve the internal facilities for inneapon within the United Kingdom, to severe defection supervision and co-ordinations. to maire that such assessments and improvement should be adequate and sustable to meet the national recuirements, and to make recommendations. The

which we are members, to investigate about repression haddened for transport offered by the ports and canally of Iroland; to make suggestions for their equipments and forelogenest, and to wast such places as they may consider versuate but this number. We have visited and development, and to vaid such places as they may consider necessary for this purpose. We have valide a transfer of ports, and we have now come to Singo. We are anxious to get information regarding the transport faculton and augmentees so to their va-pervenues, in order that we may be in a position for report to our Main. Ocumities at the beginning of

STAYDMINT BY MR. T SCHREAU, M.P. FOR NORTH STOOL

Mr. Sousies | Ser Arthur Shirigs | Bonn and mar-bers of the Sub-Committee, on behalf of the people of Ship I and pass welcome here. As the people of Ship I and pass welcome here. We desire more than to see the development of the term and port of Step-ard anything high & Gonto to magnow the transport term of the series of the term and port of Step-ard anything high & Gonto to magnow the transport resources of the duttied, well took to pressure the resources of the duttied, well took to pressure the respective of the term and portion employment for the reducing near Commissions of Stigs have been hausened at the systions Diportanties of Govern pure no graviour Commissiones on cugo have been hammering at the writing Departments of Govern-ment to grocure provinces for developing the harbour, sed, if I may suggest to your Committee as a short way of conducting the tuquiry, it would be seen to been from the representatives of the Harbour Board

manny, MP, ross Naurin Stron.

In achoosy shifty mess these gaves aggress presented the achoosy shifty mess these gaves aggress to the devisionant of Sike Radson, and also a solvent of the control of t

Loutenant-Colonal Jan. Campuzza, Ex., Chairman, Shipe Hurbour Commusioners, called it; and Examined.

Chairman 2500-L. You are Chaurman of the Slige Harbour Com-200.1. You see Charman of the Slips Harbory Con-missions—I—No. access 1900.

A statement I—No. access 1900.

A statement for it is naivered to the Science 1900.

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Of Brancher Dental, at Theology (See Boar), where one control of Brancher Dental, at Theology (See Boar), where one control of the Brancher Branche Chairses-continued

20 September 1918.]

Chairman-continued

2505. Is there sale anchorage there!-Yes, quite sale. When I was making an application in commu-tion with the harbour to the Shipping Controller last year, we were retirer turned down at once on the questeen that it was not immune from the submarine morace, and I came book to Slipe and recorded to my Board, and we proposed a scheme. Mr Chule will give you evidence on that scheme. The Admiralty than expressed themselves satisfied if that were carried out that wessels could come in to Pool Day anchoning at Hooses Point. Much has been done by the Hapbogy Commissioners in recent years to improve the harbour generally, with the result that the existing charts generally, with the result that the clusting charts cannot be taken as a craterion of the altered conditions as to deep water and better marigable waterways. Now we come to the proposed direct charmed from the sea to

made of same, and the result is embodied in peaks and report of engineers. If this channel were cut it would provide a direct passage free san and avoid the bar. The Fool Day anchorage, which has a depth of water of from 30 to 35 feet at LW-0.8.T., is im-mediately cottain Results are supported in the same accommodified for two or three large vessels at the same time. It is also well sheltered, and has good "hold-ing ground." There is a mooring busy both at Rosses. Point where vessels can discharge into lighters. This Fig. 1 was a loose gas of 10% in 10% of 10% in 10% of vater have come up on high spring tiess. This death could be could ingreased by several feet. The depth could be costly increased by several feet. The days water bettin, used for overses tailed, have a length of 200 feet, of which 400 feet has a depth of 13 feet at LW 0-8T, and the betteen is composed of soft mail. These beyths could be extended and deepened toledimitely. Ballany siding, counceting with mea lines of railway rems alregaded the bettle-and cargo-car be discharged from the alon unit engone

and cargo can be discharged from the aby into wagoes. There is a large branch shed on this quay which the property of the property of the property of the depth and corn mills. About three seres of leaft usin-able for besiding purposes, and a quantity of fer-sibles, numchanted, object the quay. To the east of shees, numchanted, object the quay. To the east of purposes the property of the property of the unique, under the property of the tentle, and the accommodation revordes for research or about the property of the purpose of the property of purpose purpose of purpose up aloni 10 feet or water and 1,000 that cirps, with armya label fincilities. I may say that the bestha are dredged to 10 and 11 feet at low water spring tide. The depth of the water at the different places herein-before referred to any—Slips Bar 24 to 35 feet at MW 0.8T and 12 feet 4 inches at LW 0.ST This is the least water at any place freez sea to mooring busy berth at Rossos Point the feast anter at any place frees see to incoming leavy hearty at Bosse, when we want to see that the state of the second see that the second secon

H W O S.T., and T to 5 feet at L W O S.T. The town of Silgs is surveined by these solitons experiment. the Great Southern and Western Railway, the Milland Constitution and Western Railway, the Milland Constitution Railway Experiment Southern and Western Railway concess with Galvay, Linarrick, the South ones of the Southern Railway concess with Galvay, Linarrick, the South-made coast. The Milland Great Western and South-made coast. The Milland Great Western, who can be supported to the South-made coast. The Milland Great Westport, and Ballins seating with Deblin, Galvay, Westport, and Ballins.

Chairmon-continued seeves the whole West and Midland Countees, and persovere the visible West and Milliand Commiss, and you on this Swetts and Milliand Commiss, and you will see the second of the Swetts and a commiss of the Swetts and Swettern Counties Ballway, I and Commiss and Earlier Milliand Swettern Guide, and Gui intge tomat eten, cent goper, and lerge com mills. Upper Quays: Custom House, radway goods store, three tennect shode, two letter oil tender, into which oil can transis shods, two large off teals, first which off on be pumped from steamer, bounding stown, plag xuffs and stones, large even railly, bases and barn-earing spectores, and extensive stowns. At Ballistoisur, from sulten freez Silgo, on the Midland Greek Western system, three are large corn and four mile, We have a schedule (produced) from 1907 to 1916 going a there a sobstatio (processor) from over to see he and return of vessels from overses, that have been dis-clurged as the Port of Sign; and showing the draught of water, tennings and description of cargo. \$505. Can you tell us, was the trade increasing up to the time of the war!—1507, I think, was our highwater mark here. We can give you one of these reterns water analk here. We can give you can of these releases, We below the gene to the expense of perinting then succe 1916. I will hand in a referre (Problems) four reverses in 1926 was 1900, in 1914. 45, 200, and there has been a gradual increase year by year energing in this respect, that part of the time flow durse were in this respect, that part of the time flow durse were greater. In 1928 the dues were increased, and that years our memory form all success one of the

[Continued

December 35th, 1815, 285 vessels free; oversex made use of the port, prepresenting a 6tonage of 60%/871, and shring the same period the number of consider-was 4,950, with a stornage of 625 877. During the fire-yours ending December 35th, 1817, the following foot-stuffs were maporied:—25sect, 0,138 tons; flower, 55,566 tons; rance, 185,526 tons; supp. 78,776 both wheat, 24,457 (tons; cust, 1,135 tons; making a total of 303.886 tons 250°. Our yea my something about the export trade, toe 1—The exports are detailed in the Bettern They have greehald, decreased from 1894 They are down in 1914 to 555°. With regard to the port superchiture, I should say that lears of £30,000 and £35,000 were obtained from the Beern's two-thanned from the B obtained from the Boord or works at Intervals 1989 to 1885, which were expected in constructing Deep Water Quay, deepening the channel from Rouse Point to Slige, and improving deep water boths. These learns have been paid off, and the debt consci-These boars have been girll off, and the debt considered by a debesture issue to the public of \$50,000 at 4 per cent. A great of \$80,000 was obtained from the Government in 1968, and (synthesis the exception of a small mum not yet received) has been expended under the experience of the Board of Public Warks in Ireland, in the foresting of seconds borth as Beaus Posts, in the magnetises of a forest and a Board work and the foresting of seconds at Board work and the second public ways from a set of the public ways from the second public ways from the second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways and the second public ways are second public ways are second public ways and the second public ways are second public

2505. Can you tell from that return what the volume of trade was in 1906.—Ten. It is all down in the seturn for 20 years. During the ten years ending December Sist, 1915, 295 vessels from oversee made.

in the improvement of control at moster rount are mear the town, and in the construction of a training wall from Coney Educal to the Elackrock Lighthous in the outer harbour. In addition, all the available roversus has been expended on improvements and plant, making in all over £100,000. Mr. Honors 2808. You spent £100,000 on the development of the port1—Ex: The immediate impresentate that are required for the port as the channel that Mr. Chan will give you effecte about, and a railway school from the Midhaid Ballway textimes here to Rosses

Chairman.

2009. Is the railway company propared to make this?

—They were prepared to give the necessary alongers and rails this time last year; whether they are propried to do no now, I don't know. There is the develop-2810 Cur Lieutenant-Colonel Campusill.

Chairman-continued. 2520. Can you tell us what is the cost of this new school before you go to the higger one 1—£75,000 would enters before you go to the nigger one T = 275,000 would be safricent. Thus time last year we were told we could get the channel dredged for \$22,500. The support new thinks that to be on the sale gide be

espiner new minus that to be on the sate side be would put it as \$20,000. 2011 is that for freeling only !—Yes. 2011a. That has actions to say to the railway !— The valvey part of the actions is \$20,000 or \$66,000. That scheme is in the Irail Office.

Mr. Field. 2512. Whose scheme is it?-It is part of the whole

2513. Was this £50,000 the estimate last year I.—Yes. 2524 Would that mean that this scheme would cost 2524 Would that mean that this scheme weekle costs of the Chronic and the mallow, with the condition of the chronic and the mallow, with the improvement of the characteristic control and the mallow, with the improvement of the characteristic force the country how better than the characteristic control and the product of the characteristic control and the characteristic the pull personners of wast enserte. (Freezees.) Our scoken jettles at the present are a great source of ex-pense to keep up. Thus is the plan of Mr. Mallagh; the estimate for the scheme was E100,000.

2515. What is the total amount of money that you require?—4230,000 should be ample. 2256 That would give you what water?—The trouble with the Harbour Commissioners is that we look upon the improvement of the order harbour as the principal thing; there is no use in doing the inside herbear until the outer harbour is right for ressels drawing 20

See of water or m.

2015a. When you get then to the outer harbour they sucher at Bouses Pitan!—We should handle our rail-super of all Roses Pitan!—We should handle our rail-super of all Roses. First massed of at Sligar 2015 That would be rather manifely may be feed Sign of the super of the super super of the super super of the super s

mot and ought not to be:

2012 I pressure your only reason for supporting the
second scheme is because you think it better first to
set one nouthful and another later on t—That is my at one monthful and another later on I—That is noy
mater but the Jackson sail give you his.

5500. Can you give us say (dat of the percentage of
the curpo that would be for Slipp peoper and for donthrough on the adjutting country I—II is all for filer-through the and surrounding country is foundtion at the sail sail of the sail of the sail of
which be writted in Slipp or the leadily. This is the
development schown that is theten the Development seedfor the sail of the sail of the sail of the sail of the sail of
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Mr Honnon 2821 Do they held out any hope of giving you a guart — Yan, for a long time. Not Stanlar, M.P., Interested harmall in the matter, and there was convolved correspondence, but the scheme was turned down because it was bell to be commercial.

Mr. Fedd 2022 Is not all development supposed to be com-morcial !-- That was the answer we got.

2583. We want to know the various things that are bought in here to this part5—It is set down in the return I have handed in

2026 Is there anything else you would like to add?

Unless you wish to tak me any questions. I will be happy to answer them to the best of my ability.

Galcord Greffon. 2825. There are three rellways serving the town of Sligo !- Yes. 2505 Are there three serving the harbour!- Yes.

2587. And are the facilities for discharging at every one of the three railways sufficient - At the moment they might not be if there was a large trade, but the ground as there

Colonel Gretton-continued 2008. There is no effected to notified good to any derination by any inflevel—Not the agence. Oddernation by any inflevel—Not the agence. Oddernation by any inflevel—Not the agence of the agency and the lanes rum in and use the tensists of the absolute resident level by draw on shops and does no copy of the agency of the a

Mayor has two places intested?

2300. Yes have still learn oxisteading 1—Yes.

2301. How do you approse to finance the improvements at the hardest papers are finance the improvement and the hardest papers are finance at the moment. Our debt is \$2,300 a year, the reviewed or \$2,000 and our does not don't to \$2,000 a year, the reviewed or \$2,000 and our does not don't to \$2,000 and \$1,000 and \$1

Mr. Hudsen.

2535 I understand that yes feel quite confident that, if this harbour construction were carried out to Middend Bathway 1—1 dea't think the Harbort Com-missisteers week allow any company to put their sall-way lines on their property. What we have already dane is their the Middend constructed a line, paid for by the Harbort Commissioners, from their ferminan to the earl of our deep-writer bettle, for which they made a charge-off this charge we get one-half. That 2534. You petfor to put the lines in yourself!-Ou

ore greated, yes

2505. And join up with the Middard - Certainly.
At least, that has been the rice; that has been the feeling of the Harboay Communicaries at Sligo.

2536 I take it you look on this railway connection as one of the most important features of the improve-ment—that is, to Bosses Paint?—For oversea tradia, 2537. If you got that oromea truffs would you have

any cargo outgoing—would you be able to give any looding to the vessels!—I don't think I could safely any we could. With the development of Arigns we might be able to supply them with humber coal, but cannot say that the coal would be in sufficient ours prior or shipment.
2535 Supposing you did get those hig vessels, how welld you supply them with bunker coal—have you any means of supplying them I—We have no crime.
ESSR Have you no hand crime I—No. There is no morable hand crime.

2740. How do you carry on 1-Cargo is discharged by ship's crane.

241. I thought one of the principal attractions of a port for ships are the facilities with which they are leaded and unbasfelf—I quite agree, and no man would be better pleased than I is have the proper

Intrinse part by one for the part which have be your datable.

See If you got more stuff in here you would have more labour and greater development 1—04 course, and we could supply a very much larger radius.

we could supply a very more larger reduced.

2645 Have you a dender of your own I—We had

2644 What became of it I—We add it to a firm in

Softman, and I think it he now working in Scotland,

2646 What did you get by it I—The cract amount is

sunching ander filipson 2546 I suppose you biquidated another debt with the dredger 1-I may say that we have at the moment \$11,000 of that in War Stock—the only money that we

have to look in the cooses and all, and we pidd off some debts that were disc. \$60.00.

2347. I am interested in hire stock. I understand the shipment of hire stock from Slips has decreased very much in special years—Well, there were a great very much in Secult years worth, party were pre-yeasy maners for that, because the sallings were pre-vented by the Admirally. These were reasons not within our control. The Occapany with which I am econocted never missed a sailing for 40 years. 2943. The

20 September 1918.7 Licutenant-Colonel CAMPRELL Mr. Field-continued.

"2548 The stoppage of the sadings by the Admiralty of course Itsushed your revenue !-- Yes.
2549. You said, I think, that the Development Com-2019. Ion gain, i time, that the investment term managers refused to give noney to your Board became it was for communical purposes !—I think that is the weeting of their communication. The principal eléga-tion was that it was for a commercial enterprise.

the Development Commissioners should give, that they ment ?-That was the reason

Mr. Hanson

2551 Slace serves a very large area in the West of Iroland !--Xea 2552. Having regard to the radiation of milways 2005 moving regularity what portion would be properly seried by Sigo F. Serva counties.

2003. With the officient development of the harbour at Sligo there would be greater opportunities of serving

as Slige there would be greater opportunities of seveng the requirements of seven Iruth counties I—Yos. 2554. If you take the county of Slige and Lettrice and the potton of Maye served by Slige, but is the most densely populated part of rural Iredund 1—I think so: 2555. And the railway connections are coolidat for all that area f.—I think it is all fairly wall served enough

Arigan.

2000 In the development of the port you have the
yampathy of the Rashway Companies serving the port

I can speak for one of them and say yes, and Mr. 2557. Sligo is a very important milling centre!-2558. And in this part of Iroland the distribution of

maine is of great importance to the local population?— It is more important since we were not able to get it. 3539. Of the 304,000 tons of foodstaffs imported what proposition of that would be her you.

"The larger part of h.

3560 Would you say 90 per cant of the total f—
Preciscally all the notice and become and sugar, and

2561. And these ste all items necessary for the food supply of the people !--Yes. 2009 And in your view, with greater port healities, would the import of foodstuffs at this port be greater? at a cheaper rule and compete at a greater distance.

2503 Would your coast tinde improve side by side with your imports from everseas !- I think they would

place is prespurous they have more money to get farmi-ture and those kind of things that form a large proportion of the general eargo brought in.
2864 Haz not there, from time to time, been a scheme outlined in the neighbourhood of Sings for

quarrying of mining apart from Arigna!--I don't know that there ever has been. at there ever as seen. 2568 With regard to the Arigna scheme, how do the development of the Arigna district affect the port of Shigo !- It ought to affect it very well. It would e us coal, for one thing.

give in coal, ice une sound, 2006. There has been a project of getting in touch with Arzana from the Sligo, Leitrim and Northern Counties Baillway?—There are two schemes, one to join it at Dromahair and a larger scheme to poin at Ballysodare

Mr. Housen-continued 2667. Anyhow, there has been a general desire on the part of the people of Lettrum and Sligo to have

2568 And that would enable the post to provide out for bunkers !-- Yes. 2500 In your vow has the sport of industrial days legacest improved in the West of lividant i-I should may it has, but they thenk these things are will of the

withe that are hung out before the people—that these different schemes that they have been hearing of to a great number of years don't mean anything.

2570 Do you think that if practical opportunities
were affected to the people of the West of Ireland to improve their social and economic position that they would axial thomselves of them !- I am sure than

Mr. Lindson 2971. I take it that the harbour requires dradging from time to time !-By these particular impr that we have been able to carry out, the channel of the that we have seen also so early obe, as common a re-river has practically maintened steelf—that is the chennel per sc. We could not afford to keep the dredges. Your own unty of Bellast had the denois of it for two years, and Lerne had it for a year and a half. We were effered \$15,000 for it. We purchased if at \$21,000 and she was 26 years old, so that we cause

at at \$13,000 and also was \$0 years old, so that we onge to the encolorance that we were making a good bargain in selling her when we could not affect in keep her. \$292. Yes did not seed in your evidence with the transatisation porty—I would like to say this absolute— that we have no soft man proquent to yo before this Committee, but what we would not be produced. Committee, but what we would ask the Committee to do se that, before any port is selected, a special report should be made on Sigo. There is a direct you m

out the ma. 2873. Would the existing radiance serve the trans attanta port - Of course they would have to be in

2574 Do you container that your harbour could recome in it is to-day without dividging?—I am quite certain that it could not, but we have a small divelope that we put on in an exceptory. A best could he thouse out with it. Our othey droger was a backs dredger, and of some it was very expensive to ran 2578 Wort you need a large dredger—to established by, if we had the money to get it, but where it is to come from in what I want to know is to come from in which I want to know 2006 Savely it was a very dangerous thing to all your dredger when you maded it for yourselft—I admit that, but our existence depended upon selling it.

2577. We were informed at Balmullet yesterday that

2578 In view of the shortage of foodstuffs in Great 2005 In view or the morrage of postpours in tures. Bettern it is a very lumentable fact that the Admiralty are not giving sufficient factifies to get cuttle and goods away from the port. We were informed performed. goods away from the port. We were makerned yester-day that thousands of pounds worth of goods perished because there were not the inclities at Sligo to get than away!—I think that may be quite true. You could get that evidence direct if you winhed Cherrman I We are very much obliged to you.

Mr ARTEUR JACKSON, D.L., Vice-Chairman, Shap Harbour Board, called in ; and Examined Chairman

2579. You are Vice-Chairman of the Slige Harbour 2880 Do you agree with the evidence that has been given by Lacatesant-Colosel Campbell !- I do I quite codress searching he has seed. I would like to lay a excitition corrything he has sand. I would like to lay a good deal of stress upon the application flat we are making for a Government grant. In a great many cases whose Government nearly is abled for, and very often where it is expended, the results are not repre-ductive, but I am quite astinded that if the grant which we are now looking for were made it would he

spreductive in every sense. I was Chairman of the reproductive in every sense I was unsimmen on my Board for a good many years. I would like to take you back to the year 1880, when there was samply a lovigh embeatinesed down to where the present deep-water beeth is. There was no mileway and so facilities cargoes had to be lightered up

Mr. JACKSON

Continues

Chairman-continued Chairmen—candinad by the Chairmen—candinad to be convered from the Board of Works at the rate of 8 per cout—for the Board of Works at the rate of 8 per cout—for the cout in payment of april of We had to get their permissed for any other time of the money we supersical that the get may be a fact of the money we supersical that the get in paying here on the contractor's dredger. We therefore sketched of M. took loom and obtaining 250,000 as self to brilled a faceigner. We got the whole of the limit of the school with the size of the school with the size of the school with the size of the limit of the school with the size of the limit of the school with the size of the limit of the school with the size of the limit of the size of t the degree. We got the whole of the less fleated as 4 per cent. The native we got for the sale of the direct records was put me. We Slock, so that it will be there are the weak of the sale of the direct records we got the weak of the sale purpose. Store of an appropriate we will less for once. There may be a phethora of slope later on, and the answers, if wholging may be easily got over any of the sale point of the sale propriate was a slope through the later of the sale propriate was a large through the flat the sale propriate the sale point of the effect of one spinning meany impacts. The imports in 1881 ners 19,600 tons. In 1995, when the railway was constructed to the deop-water burits, the railway was constructed to the deop-water burits, the rapross from Example parts along of muse was 55,900 tons (in recep-ing roughly) means 5200,000 in 1886 to 5200,000 for years grouphly was from that it has genetically continued Our evening a line my specific his pranticeally confirmed about 150 miles of the may not it makes the property of the presence of the my specific his production of the present and the present and the present and other presents are the present and other present and other presents are the present and other presents are the present and often curries), and from that it has penetically continued the extract in from 40,000 to 45,000 tons a year in mailer 3d to 9d a querier cheaper, and we would be able to do a much larger business

2561 How many tons per day can you discharge at the porth—We have simelarged, with the nam w-have been, as much as 500 and 700 tons. The general average would run to 500 or 500 tons, but I do not know dusy place where, with such for lacilities, bettey work 2082. You have not got the incitions?—They will come If the larger these come, mriead of fineteating employment these would be steady work, and the incit-

semigroment shows would be strong words, and the frechies would be improved.

2005. In it a fact that in the charter there is a since put in that for rescale occuring to a post like. Since on extra shilling is sharped N-Yao. Mr. Semin, M.P., will bear me out when I say that from the first day be has represented time constituting we have measured, must not seen assistance; we have seen to be a series of the constitution of the semination of the semination. ship to reside such an morease in the volume of our beautress with a comparatively small expenditure, that tun we are now seeking for getting in larger vestels. In vestels to the realway to Rosses Peant, the difficulty as that all these skips are getting larger in every way, and there is trouble in bringing them up a minor row. The theat thing to do would be if we could get the whole rown whole the design to Reeses Pout, the fill the in me dens the next time go to being the country. ter if that is not drive done seen turing is so come with the to force and the processor forms, where the uses can three in occupant by the railway to their work. At present we have to pay railway freights from Singo to see mills at Bellywolars, where on business se curred on, and we do not find it any drawback. Every penny of ancest reverse thirt the Board reised has been spent on herboar unprovements. When we found that we had so many threes to do to enable these ships to come, we relumbarly meaning the discs upon correleve to the extent of a hundred per cents. The discs upon makes were measured to 10d from 5d, and on wheat to Is from 6d, per ton, and at that time the discs as Bellian wise somewhere about 3d, or 3d, I want to show what we have done consolves towards effecting improve-tions. If we could go on, I would piefer it to saking for a grant. If the Government would advance the fee a grant

Chairman-continued mancy that we require, after we would have reached our remail researce of \$3,000 we would be willing to pay these basic a run of money on the average over that. The only object would be to see that the port-held its sear. Look at the roution that we have been placed in singe the wai mote ear. We have gone to ulaced in since the was bloke eat. We have gone is Lordice several times to pel-engod direct to Slige, but we could not get the Sligering Controllers is agree, as vessel until they did begue is correcy. In the line year of the wer we brought in 60,000 tests—about 10 thing was and the only alog hast was over There and the same and the only alog hast was over There and the same active to go to Slige. There is no reason why and concentral vessel would not be derivered to Slige. Then carse the provision that no matte was to be used as cens the previous hat no matter was to be used as cutable food. That knowled our resistes burnares on the band, and mann's serious flow to war made to the state of the state of the state of the state of the cutter of being a guest take to the estile and stay. People who freed cutartly by feeding their pags and young criters were aridically depreted of the only food help had been minimar and their pages of the state of their pages of the state of the state of the state of their pages of the state of the state of their pages of the state of the state of their fame who their pages of the state of the state of their fame who their pages of the state of the state of their fame who their pages of the state of the state of their fame who their pages of the state of their pages of the state of their fame who other or that respect in the state of their fame who their pages of their pages of the state of their fame who their pages of their pages of the state of their fame who their pages of phones. I may montion that there has been a steady requiry from people in England in regard to the start-ing of printeries in the West of Ireland, and if we had these facilities, there is the possibility of a bag had these farithies there in the possibility of a big expect tend being done in such commodities an anim-factured consent. What has injured our expent in that the brain that were the maintesty of the poet have consed coming. In my own time we were able to ship ourgest of 500 time of cast weekly, but we would not get had quantity in two years new. So lie here things got had quantity in two years new. compact of 500 can of nait would, but we would not get that quantity an inveyanre now. So the heart dough guidely and the properties of the second properties of the control of the contro the question II the coasting tasks would be improved if there was a larger brough import it would in this seam, that many all the coaling of these deciments have been done from Sign. The coal is get in while the earge is being discharged, so there is no delay or difficulty in this, way, notwobersating our went of facilities, but, if we developed a larger trade, facilities would be fortherming. That would have the effect of thorsesing the counting slope importing coal. I don't think there is anything else I have to say-

Districts of the second of the

20 September 1918] Mr. JACKSON Charmen-continued.

count on when the "Taxtay" would be there to take count on when the "rains" would be there to take cattle from them "-All I can sell you is thist if they have sufficient cargo to lead the boat she wall be 2587 You have been getting some coal from Arigna? 287 You have been getting more over a some of the —Yes, for our level gas company, and for some of the institutions. I caused my that I have any personal constitutions if a heaviling qualities. I have done years

would take every ton of coal the company could train out, but that a lines it was not possible to get it, and this therefore they had to change. \$888. Do you think, with the development of changes, that you would get the coal 1—Yes. It might improve in quality as they get deeper down. Some of the officials of the local institutions field me it would be in a well see dots coal. They are it on the Caras and as well se obts coal. They are it on the Caras and

2559 Do you think that if Sligo was developed that you would get a bagger export trade —Tes. I think the whole West of Deland is still an unknown country,

2550 About the "Tartar," why did it cose to carry possesses "-At the present time, and for some time post, my company have been removing the "Tartar" one purity compensation, solely to keep it. The Bould of Works had a submity, which un-

Mr. Hausen 2001. Don't you think the West of Incland, owner to 2001 Unit's you mine me were of intimate the state of the peculiar carcumstances, has a definite clear for assutance foost the State!—I think to. It must be beene in mind that in Bellant they have more advantages—they have more mineral wealth.

2598 No nuneral wealth?-I heard of vessels trading

M: Hannon 2523 Would the employment of labour to Sligo-the number of people employed—be enlarged if the port

2565. And the people in the West of Relind see an industrious people, if they get the change - Yes

8500 From an Imperial point of view, are you of seven countries that are served by Sigo and exported to England-pointous, poultry, fish, stc ---

Charmes.

2007 With regard to the supert of wheat, are the mills here weeking full trent—Taig are weeking unjut must be the superior of the su Mr Field

3599 H you had these transport facilities would the live stock trade be catered for I—I should say so. The chesper such articles as mane are the better it is for the cattle trade.

2600 Is it your view that the want of major has interfered with the fattering of eatile and page and therefore reduced the food production which is no essential?—Yes. I was tall that people sold off their

pugs when they could not get masse most. Swindows is near the see and is a big cantoe for pag reasury. (The poet law grouping about it represents \$0.000) I hand that the people three sold off them young may when they could not get mane meal. 2800. You are of opinion that if the mane were som us much more point would have been predested.—You There is no other beeling stoff except small polaries, 2800. And the want of mane has also sho should be presented the stall-feeding of cuttle—To a large

2003 If this money were hild out on the port shelder on the intend improvement or on the ca-sermi experience at Ressas Front, yes at a continua-tion in the intended at Ressas Front, yes at a continua-tion in the intended at the continuation of the land, but would be useful on the other ande of the Channel Twe

Mr. Wishes 2604. I think you said that the grant by the Govern-

2605 I think you also said that Aragus coal was used by the Caran and Lutrius Radway?-Yes. 2500 Have you any sides with regard to thus coal whether if you got the type of vassed that you wantmay remain up to \$,000 to 9,000 tons-that you would saitable for hunkering purposes

2007. You will agree with me that the larger size

vessels that you get here the greater is your volume of all shows?—Yes The volume of trade and the volume of employment
2002 That naturally follows?—Yes.
2009 What naturally follows?—Yes.
2009 With segard to this ruleway at Rosses Petrs
I am not enretly clear. I think you with the Government to do it?—Yes, and the despening of the bar,
which is the first oscential.

which is the hise escential.

2010 Would thus connect with your lime?—I think
the Covernment would either hand it over to the
Midland Great Western Railway Company or control at themselves, with the condition that it should be open to any of the other three railways They would either give it to you or lease it to

Colored Gretter 2612 Has any Government grant been applied for !-Yes, that was the basis of Colonel Compbell's application.

2613 Was that application made on account of the
was conditions?—Yes. It was pointed out that wasels
coming to Singo Bay at low water run the risk of being

3014 Had any application been made previous to war for any grant f—When they gave us the \$50,000 it was culp part of what we wanted then 5018 Had you the receipt on loss, or was it a free great f—as a free great. I believe the advance pow

2016 What improvements do you want most !- I look upon the diedging of the outer har as most important 2017 And the next !-- The valleur at Home Parts 2017. And the next :- The railway at Resea Pulls, to be able to discharge ships more quickly when they came in. There would be two Bass of rails, so that wagens might be leaded out of these beg chips at one side and durcharged out of the shots into sugent on

2518 Do you know the cost of dredging the cultr but 1-A rough estimate would be £17,500, but, on 00) to require estimates would see 211,000 for a secount of the increased cost of materials, it might you to £25,000. The gives advantage of that would be that all our stops would be able to come in straight that all foir supe would be able to come in arrange. Sligo Bey in about the only pince where at the ap-yeough there are no inlands or rocks. There is printe-cally nothing between Sligo Bey and America.

Mr. CRUTE Mr. J. H. Curre, M Inst C.E., Consulting Engineer to Sligo Harbour Board, called an ; and Examined. Chairman-coatus Chairman.

2518 You are consulting argment to the Sligo Harborn Board !- Yes I am not their argment, but I 2630 You will give us some evidence in regard to the proposed improvements "-Yes Edwice Rosses Point and Sligo, and on the northern side of the river channel, there are about my square miles of sandy faits known as the "Cummon Steard," which are opened at high water. In 1905, when the last ceremi at high water. In 1933, when the fine Administry survey was noise, portion of the water from this obtain through the main river channel near the "Matid Man," but the larger person passed through a does network out of the water of years and Goog Islands. The resultant flow of the two outrests, meeting near the "Metal Mag," took a pertherly direction and the "Matal Man," took a northerly direction and peached deep water by a large semecronic sweep to the Wook between Blade Book and Raughley Point In 1998 a few great of 859,000 was made by the Transity for the augmentant of the Piat of Sligo Scar of this recover was agent in dredging the deep water borth as Boots's Poort, where vession drawing

20 September 1918.]

Cheirman

2023. We shall be glad to got some information from you l-I have very little to say, because I see by your terms of reference that you are not going to

inchors, especially near and beyond the Pool Boy spoborage. The level of the Bunger Sand Bonk has been lowered on almost ats whole area. This is still taking place, and a new channel is beginning to form in a lime nearly parallel with the "Cluckhern," and much strangister than the old one followed at present. tion of the new clummed by section dredging to a depth of 2N feet at low water, with a bottom width of 300 feet. The unstread consumes of fine loose mand, and it is anticipated that once the chancel is dredged the total flow will be sufficient to maintain it. We calculate that there are about 800,000 cable yards of sand to he removed, but we think it advasable to rectom upon 1,000,000, and the cost at \$20,000. We believe this quantity can be dredged and the charmed made com-plete in less than sires months' tune if two large source charmes possessing more closely the fine of deepest woirs, having an easy curve, and on which the quantity of excession will be somewhat less, is shown on chart No. 4 2021. Can you tell me anything about the cost of the designing at the present time I—The estimated cost last year year (22,25,96), but I think we would went to mercease that to seembling under \$30,000. That is for the dredging of the outer channel. I had nothing to do with the railway solvense 2552 Hild you anything to do with the inner

2022a. Do you consider 100 yards would be sufficient? That would be the bottom width. Of course, the

Mr D. M. Hanter, T.C., Mayor of Slige, representing Slige Corporation, called in , and Examined

myself, and suce April I have not been able to get any coment. The farmers come in in draws looking any cement. The farmers come in in droves loosing for cement. It is almost impossible to got as much your learns of inference that you are not going to incurred must be bushing problem.

250. We are dealing only with transport inclinites?

—The mest imports thing for Sigs and the district is sained transport. I happen is

all the company of the company of the company of the saint and transport. I happen is

all the Company of the Company of the Company of the Harbary Continuous and the Company of the Harbary Continuous of the Company of the con-tense going by the time witnesses with have been extensed I am entirely in second and as in the whole Compension. If you do say thing the continuous of the con-tense of the company of plies to reen at the persent time. We cannot get the without permits. There is a good deal of tree over in the Corrolles district. It was worked by a Landen

from at one time.

3639 Did they try there some scheme in consection with peat!—The cond is quite convenient to them. If ther had a railway made they would have the case

me composation will be quite steased. What really active development is the marginature of cement and the development of ince, of which there is an abund-zare at Corrector. Coal, not and cornect are very score in Steps. the quantities available being some on Sign. the quantities assifiable being study unsuffigurate to meet the requirements of agri-culture, seed production and optimary densities pro-tones. There are an azimutied supply of cost in Gosevagh and Angen, as well are nestenable for making constant. Greeneds has submitted supplied to the pro-gramity some one. Bullway and the properties of, as an import warm there among districts with stille-2650 How neer are they to the unifrond new?— About 8 or 10 miles from Dromahum. The super-being up the mountains, the roads to them are not very My Honora 3631 If the goat of Sings were developed along the tot, connecting these mineral distracts with Sligo live and covered works should be erected and Stigo

cone if the pres of Sings were developed along the lines suggested here to-day, do you think that private enterprise in Sings would manniest itself in developing the industries you now suggest?—Not without protec-tion. People would need protection for capital 2632 Given a decent accuracy policy for the United Kingdom !- Well, I think they would, provided the

Mr. Pied 2635 Are you of spiring that if the port was imported on the lines suggested by the winesees little today, that you would have extrest or the results that would ease here!—My own occasioned opinion is I don't think enything of the lines. I think the factore of this country will be to become more related and of this country will be to become more releast and self-supporting and we will not need so much stuff

rs syloridi distributing cetter and behavioral bankulturel large entirence, and well-entered behavioral behavioral bankulturel large entered by the second s 2023-d You think it three was cover training a said Sign from the zeighbouring centry that you would have cerean and other things of that sort developed and brought here?—Yes I am in the cament trade 0.178 Mr. HANLEY

[Continued

Mr. Full-continued from abroad. When the industries of the country are

9654. What about exporting?-We may export, but for a long time to come it will be mostly to Great

Clairman-continued Britam, and the heavy things will be principally food will be to become more self-supporting and produce

Alderman J. Lyncu, representing the Shop Trades and Labour Council, called in ; and Eranimal

2635. We would like to hear from you whether you amaider the trade of the place is harmored by lack of proper facilities for treasport?—The first thing I would fike to deal with here is that there is every possibility of exporting stuff out of Sligo as well as importing it We have milimited surelies of iron ore at Creavela. and I don't see why that would not be developed and exported from Sign to England and Sociand We are supposed to be Britishers, and would it not be better for the Government to support their even people rather than the people of Spain? Up about Bailyaodare we have milimited supplies of cement, and I don't see have maximated supplies of censent, and I don't see why we should not expect that also. Iron one is to be found in abundance in Co. Slape. If it was possible that a shipping youl was started here or smelting works, there would be no necessity of geiling plates free aerous the Ghannel. I hold that it that pince was developed we could empire cognosition. Three is an anient of timels sent from here on the Scotch boat, ament of timeer sent from feet on the Scores boat, and I remember when we experted an amount of onts. I want to say that it is possible to expert, if our part were fully developed. As regards the Arigna coal, I were fully developed. As regards the Arigne cost, a think it very desirable to have a line running to Collectry. It would inclitate Shan. I don't want to happen to be a member of the Hartour mann, one a was not present at the last meeting when the matter was throught up. Those are the suggestions of the Sing-Transe and Lohem Counst!—The place knowledge as Pool Com, as Sing-Harbour, might easily be histed with a two to dillow shigh to come to the upper quay with noticing growin frontier that at present. This place is a quarry marked by two perches, and is most damperous; in consequence there is a great waste of agraes which could be utilized if this contraction was space which would be offilized if this contraction was removed. The place opposite, known as the Salmon Robe, could be earlier isled in from the Sectoh best Robe, and the section of the large jetty bett sheet. A walk could be best for the large jetty bett be made, and, with the excellent of atom remove, the incharge of tectors could be excellented and valuable time saved; the rathesy line runs directly along this proposed side, and with the summarization of this will the corgoes could be transferred to railway waggons for muscliste distribution through the whole country ing the channel boundary about he removed back at least fee a mile on Commin Strand; this would result in a strength channel to what is known as Oyster Island; large steames to 6500 or 6200 tone could come to Singe Quay with period ariety. With the regiver then would be roughly a mile and a half wide, with plenty of deep water and sale at all times. With with planty of deep vater and sade as all riches. With the accomplished the project of continuing the hall-like accomplished deep long of continuing the hall-like accomplished deep long of the hall be all of a latter of the hall be according to the hall be all of a disider to directly one to 15,000 form with the and of a disider to directly one hall be according to the disider to directly one of the hall be according to contrast of the channel from the Metal Man can to the bay is very hard to mavigate owing to its rip-ang pos-

Cherence-continued erch opposite the Metal Man on Bowmore shore shoeld be removed miand at least 100 yards and dredge the channel straight by Haughley Head, the wall running from Down's Island to the Rock Lighthories should be runed, and island-unckers employed to runove the gard reason, as a sub-concern sempoyed to remove the said from the new channel and force it over the gail at the lighthorne, the raised wall would proved the said from tilling in the channel and potted Poolder from westedly and south-westedly gales and afford self-alphonous mail weathers. In order to keep the go in all weathers in order to any one clear and safe it is absolutely necessary to completely clear the piece known as Shrunamerla at this position as at powent apparent in the coalse followed by the channel running blose to Lissadell of the 100 Resping are cassing persons; associate out to see. What is called the North Wall opposite the deep water should be removed back to any, a distance of 50 yards at Cariron shore, 50 yards the Red Light and in the centre 150 yards, this would make the river perfectly safe for right traffic. The spot called the Blemnick to be cut away townels the Coast Guard Station for, say, 150 yards With the above suggestions made grartical, Sky Britt the and rank as one of the safest and best in the United Kimpless

2536. That is very interesting, but does not come within our Terms of Reference. Our duty is to see if the easting Stellites are sufficient, and, if now but steps could be taken to make them sufficient remember when I was a boy on the quays there was a large quantity of oats expected. That trade has been

killed. "285N Supposing this part was improved, how are you off for labour to handle the ships!—We have pleaty of labour for the zero knowing about non-Some of the old men are hving on about from 15 to 8 hours" work a week. That is all the work they can Mr. Huden

2536 You are representing the Trades and Labour Council here!—You We give our support to the scheme that has been submatted by the Harbour Beard ans arriermon.

263R. On the ground that it would afford work in-natrially for the population around this district!— Yes. 2549. You also give endeance yourself to the effect that not only would it develop the import and expert touch necessary to the port, but that these are other adouttees also in your common that might be largely developed provided this eabness were carried through?

My. Field 2641. Are you of opinion, if the scheme put forward by the various witnesses is carried out, that it would bring more labour to the port !- Yes

2642 And at present, owing to the west of facilities,
your labour is not what it neght to be or has been? 3645 And you are also of opinion that you require a rathway to connect with Argust - 4 am. 2644 And that would help the labour population t-

Cherrmon | We are very much obliged to you

Chairman 2645 You have board the evidence given this after noon !- Yes, are

Mr E J Kuwan, BE, Minst C.C., County Surveyor, Singe, called in; and Examined. Chairman-continued. 2045 Do you agree with it!-Yes, entirely 2547 And you are going to tell us now of the nece 9) September 1918.)

Mr. KIRWAN

(Mairwan-continued mty of transport facilities from here to Arigns !- Yes Of course, I am more interested in the work outside the of course. I am more interested in the work outside the form. The most important transport need of this dis-licit is the getting coal from the Argina District to Stigo. The newest collecty is 18 miles district, on a neutral model at m. elements of 1,000 fs. Fig. the most part the word to the coalfields as suited only for light traffic, and the portion up the moratain side, about two miles in length, would require complete reconstruction to make it restable for mechanical haulars. As an emergency measure, pending the construction of a rad-may and repoway. I suggest that the resintenance province for the main road to the mountain provision for the main roof to the monitorial to should be increased to enable 80 tens per day to be carried by steam former. The cost to be taken by our from the pit to the leading piece for the learner, and later by a reposety. The extra maintenance cost of and later by a repowey. The extra maintenance cost of also read to be seconded by the Road Board, or out of same time for the permanent unprovement of the road. as repares the rather of after the war, there will be an executors increase in commercial motor traffic. In an encourous increase in commercial notes traffic. In rui al distincts the roads will be the feeders to the rail ways, and the main roads should be improved accord-ingly. Much mailed work was done in the direction in m the early days of the wor. In this county \$22,000 mm spent in improving 50 miles of main roads serving distincts not provided with railways. To this cayendswas spent in improving 50 miles of main room several districts not provided with rackways. To this expendi-ture the county contributed 213,800 runed by short time the county contributed 25,800 russed by short-tern leans. There are deep see induct statem on the count of Singe, Mullipatione, Roughly, Emisserous and Iransitatory, Island, Emisser is a good barbour at Mullinghamer. It is short, 10 miles from the measure rullway of Brinderian. A first or regains is required, Roughly, 16 miles from Sings, has a shallow harbour which requires some improvement by despening Runserons which should be one of the best desposes Beaucoust, which should be one of the best desposes thomic patterns, has no harrison repoyedy speciming. Thom is a good pare, but it is no supposed, and bootle must be keep landled up on the load, and one put to see our in safar weather. An enabled that should be a small be a supposed to the safar should be a supposed, and harrison the safar should be a supposed to the land of the safar should be a supposed to the land of the safar should be a supposed to the show four attainess Mulliaghance up the safar should be a which large loads as in such above the safar should be a which large loads as in such a large should be a supposed to

2548. Has any estimate been made of the amount of ency that would be processary to make the road capable sattoy man would be necessary to make use to an exprise of earrying the motor traffic as far as the Argans dis-tract i—No estimate has been made, but I think it would take about 220,000 to improve these permanently. Perhaps as a temporary messarie 22,000 et 43,000 might serve. That is, as an emergency measure, to cope with

the present shortage.

2649 You have not many roads capable of taking a sty heavy traffic — More, except, I Olink, 50 unite, roughly, that has been reconstructed 2500. That is at least reconstructed 2500. That is at least indirect phononess here I—No, not mit by Fort of Sign. There my sentically no deep sea.

nong. 2652 None of the fishing boats come in with fish?— NO 2663 If you had a regular service or elements do you suppose you would get fish here !—Yes, quite easily.

Mr. Full 2664 With regard to your suggestion concerning the motors to Arignat-Steam forms I suggested

2665. How long would in take to make the restway? Theo years perhaps. It is about 10 miles 2655. Two years to build ten males of railway. They good two years to build ten muse of ranway. They would do it in america, in the praise, in this day — But the is not a positive 2667 I know it sun't. If this decelorment took place it would be a great benefit to Skigo i—Yes

2008 And to the seven countries with which Singo as teading 1-Yes Mr. Kraling

2009 What is the distance between this and the Argus district — displacen miles. 2009 Is the output sufficient to warrant your sugthat 50 tons a day could be obtained imme gestion that 50 seems a may come to contains illustrated that them of the main road were improved and steam former provided 1—Yes. That is a small output 360 That would be immediately available for the town of Singo 1—Yes, if the roads were improved and

the lorries available.

399. I think that is a very important matter. It would be quite possible for us to recommend to the Princip Generative that present lorres should be princip Generative with a principal service having regard to the surgest need have you got yet when you get to the man root would cost !— \$10,000

STATISHENT BY MR. T. SCANDAR, M. P. TOR NOZIN SELOO.

Mr. Seculon] I can tell you some thing conversing the matter of industrial development. I have been intecested in the development of the cement industry largely on account of the request made by the people of Stage (melading the Mayor of Stage and the Stage Wroght from Company) for permits. Mr. Arthur Wroght from Company) for permits. Mr. Arthur Permits of the Company for permits and the company and the company for the company of the company of the company and the company of the compa committee of the committee and for the internation of many people who are most deeply internated, that another Committee from the War Office which has absolute control over coment will shartly come to Singo incluy, the first question always asked by the Govern-ment Departments in London at "Char you provide local coal?" Now, so far as Slope to concerned, we local coal?" Now, so har as Slepe he construed, we have no difficulty in asswering that question. Local coal can be provided by a system of malway develop-ncest. With some members of this Ournative, of the been repeatedly on digitation to successive Chair Secretaries with a rever of impressing on them the in-protonate of the development of Arigas. Arigas has

now been developed to some extent by the provision of three noise of light railway, but some further developthree unless of tight railway, but some increase acceptance of the mean is necessary in order to got an output of coal from the Sligo side of Arigna. Therefore it is necessary to the Stage side of Arigna. Therecare it is necessary to have further radiusy connection either with the Mis-land Company at Carnek or some other convenient centre, so as to have a supply available for Slage and for bunkering the ships going out of Slige, and three ascert the schemes which here been submitted to you people of Sligo in tendering to the Committee our best thinks for the patience with which you have Statemed the Slips Port, which raught to increpented with the read of the evidence taken to-day. I thank you can copuly on my own behalf and on behalf of the witnesses and people of Slaps for the patient hearing you have

(Roirmon.) On bohalf of the Committee, I wish to tonfer to the witnesses our emoure thanks for all the information they have placed before as in reference to miceration they have percent beautifules. Shop and the necessity for more transport familities. We shall be very glod to see Mr. Labri's statistical and study it is go very carefully. We hape to make a Report to correlating countries at a very carefully. We hape to make a Report to correlating countries that exercise paid compositions we cannot receive that exercising will come (The Satting thes executed.)

FIFTEENTH PUBLIC SITTING: SATURDAY, 2187 SEPTEMBER, 1918. At the Court House, Letterkenny, at 3.30 p.m.

MINISTED PRIMARY Colonel John Gretten, M P.

Mr. Walter Hudson, M P. My P. J. Harner Mr. PRILIP MacNULTY, Secretary SIE ARTHUR SHIRLEY BENN, M.P., IN PRE CRADE

Chansen | May I say, first of all, why the Sub-Committee is here. On the 5th of last worth the House of Communication appointed a Select Committee for course that such developments and improvements should be adequate and suitable to most the national requirements and to make recommendations. That Scher Committee appearated a Sub-Committee, of which we are members, to investigate and report upon facilities for transport offered by the ports and comain facilities for transport offered by the ports and comain facilities. Ireland, to make suggestions for their equipment of freather, to make suggestion on the square and development, and to visit such places as they may

Mr Matthew Keating, M P.

we get no ministrou that saybedy from this district washes to give existence. We therefore made po arrange-ments for taking emission. We shall be gird, how-ever, to necess any enthread that may be submitted to us within our Terms of Reforence. Mr. Edward McPadden, Salicitor, Letterkenry I I Mr. Edward McPadden, Salicitor, Letterkenry I I in the Salicitor of t we got no mismation that anybody from this district was away on bolidays in England when the nation appeared in the papers, so I slid not see it. The first attituation I got that the Sub-Committee would be in Letterlearny was this moraing from Mr. Kelly about 11 o'dook. I also got notice from the Serviciny of the Mr. Hennes] Could not any witnesses who are not

here, and who are annual to give crudence, appear at Mr. McFuddes J Mr. Strong, Subtrict to the County Council, said he thought you were holding a sitting in

Charryon | There is no utting fixed for Strabens. We have to be in Loudon on the 1st Oriober, and we We have to be in Louisin on the lift Ortober, and we have had, therefore, to get through in a shorter time than we should have liked to. If statements are next to me we thall consider them. Perhaps some gettle. non well explain to us the position in reference to transport facilities in Letterkemy. Feller details and

Ma. McPaddes.] If the statements are some on would that he sufficient? Chairwan, I You but we would like to get a general

Hr. McPatdes | I am only conversant with my own part of the distract. Mr. Dunleys, Charman of the County Council, him knowledge of a wider area. I know the general outline of the wilerways. Charreson.] Then purhays you would give us some

Mr. Eowarie McFaracos, Sobietoc, Leiterkonny, Ex-Channam of Danagal County Control and Past-M P. for East Danagal, called in; and Estamand

2563 You used to requestry East Denegal in Parisament !- You. ment)—Yas.

266 For a lime you were also Chattenin of the
County Council — Yasa surrething about the facilities
for transport in the locality—Harm young days, my
father was a recedant who lited my young days, my
father was a recedant who lited my young days, my
father was a recedant who lited my young days, my
father was a recedant who lited my
father was a result of the part of the part of the part
father was contained in a spheroid only a mirel. My
father was contained in the way. They me will just a bid
of uncessors of his way. They me

father was consequed in that enach. Mr. Ketty v. a kind of uncerease of his new Theore were covered other of the state of

I sampt tell yeu; My Belly can 2667. Do you know what has become of the oats—are they not green i—The farmers are growing them still, but they are bought at different markets. The Letter

Chairman-continued. keany Rankay was made then. Mr Kelly is our sollinry buyer here now. The eats are in the essential

and an glown most extensively.

M66 Yea think is a become thay could not get a suspectation from here that they don't come hose to limit so Mr. Kelly as an expect lin regard to this matter, and he will gue you redomnation. In these days to which I have referred, during my father's time, large or which a nave preserved, suring my matorie time, Letterbeisung was a very brasy town on marked days. I reasonable myself being at echool here, and seeing the whole stees lined with earth On marked days now you could easily could the casts. The trude has been directed from Letterbeity.

dwarfed from Lettle Beauty.

2606 It of owing to the food of not having the trade hore that the prepriator has decreased field think to be the control of th

Chairman-continued

been to the public. That is a master of quick passenger traffic you know. 2000 You send things over the suffread to Stanbane? —Yes, and on to Belfant and England. A lot of the falt traffic pose that vary. Formerly, before the Stanbane Enthway was built, we sent them round to

2071. Has anything been done during all these 40 years with regard to the past, or getting the channel designed !- No: 2502 In there any kind of maritime board here!-

2673 There is no part, or harbour, or maintime board

Mr. Chicago Karas, Millowace and Grain Merchant, Letterkenny, celled in; and Examined.

2605. You will give us some information about the generic condition of the poet 1-1c is privately owned, ask it is farrly mavigable to the "Thom," but leads have a lee of difficulty after that that 2007 What is the dramph of water 1-About 11 feet

at spiling tide at the port.

2578 And at nears .-- Down to nothing, according to the wind or weather. 3079 A bost has aground here!—You At the "There," there is about the same water, at map inde,

as at the port during spring tide, viz., about 11 feet 2530 Do you believe that the reason why the best ness is not greater here is become you have not befor facilities.—We have had no ships in here since the war began. Provious to that we had bests up to 300 tens, and provided they dri not exceed 125 feet in length they could come up. We sell coal here, in carton to Derry

operation to Detry

262. Vessels came in with coals 1—Yes, and loaded
grams or meal or anything class than was going
82000 the war include oil recol from Laterchearts to
Lementic has to go by real, and it costs 24s to 25s a
to My fain long about 100 tones of eats weekly in
the winter months 2002 Has may offert been made to diedge the port?

No. 3 What is the distance from here to the sea!— From here to the "Thora" in two nulles, and the river as mirly newigable after that, and to the sea I sup-pose social by 20 miles. Yeav large bosts can come into Bathmullen. I think there would be about 40 or 26 feet of water at Realmurlien.

2654. In it a maral base?—Yes 2655. How near book that came to Lebteckemy?—It is about five miles from here. Soft. Then you have got the river on 2—Yes, from Editorians White her covering to me within would be a great matter to tradem if the Rathmellina it would be a great matter to tradem if the Rathmellina.

in would be a great matter to tracker if the Rathandlen. For a christool for Admirably suppress, and it we had suppress that the suppress of t

3889 If the port here was improved, you consider that the trade would develop !- I think it would in trease greatly.

2530 Does that mean that you would take the traffic Limevick is the biggest centre we have in the South

(Makes un 2691 Are year milk working fully?—Yes 2692 You have a good meny in the country that 200 not?—Yes; but this is a great guin-growing dis-trict, and milks are very much required.

Colonel Greffees. 2565. Did these vessels come up to Letterkenny until the war began?—Yes. The Government restric-

Mr. Hannes 2674, I suppose the County Council has some ulberity?-They have penetically no anthority.

Mr. Field

2875. The whole thing is left to God and Nature 4— Yes. Themby years ago I took Mr. Arthur O'Osmor, then M.P. for Rast Biosopal, down the view to show him the defects in the savigation. It is a minute how a 20-4 on steam; cain got up at all. "There is andy one man who can pilot bont on the river, he steers by the Summer's city of the lank. At a certain point hir boat has to be dragged by men with ropes (Stoirman.] We are very much obliged to you

Colonel Grettes-continued,

tows at the mouth of the Lough are the great drawback at present.

2694 What I want to find out is if the over is still
possible for vessels!—Yes, under great difficulties.
We are dependent on one pilet, and when he gets

We are dependent on the fault of the navegation of the fault to the fault of the navegation of the fault of the navegation of the man understands it. What Mr. McFadhen work about his beats being about by the "Ben-weeds" and the beats being about by the "Ben-weeds" and the fault fault. res in quate true 2095. If improvements were to be made what do you want done!—The terms in the river are very sharp. We cannot got vessels up exceeding 125 ft in length.

2607 Its is not that you want the river despended.

No, we have a telerable depth. We want a few points

straightness 266 Bas the trade of Letterkenny generally de-craised arise the margation because difficults—The naturation is what it always was. The lower has not silted up. If saything, I think it as improved 2009. What I wast to know is whether the busi-ness governity has decreased—I disable the wholessia. Mr Hudson

2700. You think the railway has been against you development of farming if we had a better port. In pre-war days I have shapped onto to the Brashol Channet, but under great difficulty. We have to wait screetimes

2701 You think the district would do more business. and produce more cats and other commodities if you had before teamsport facilities !—Yes 200 Is there any other commetriy dealt largely in bender cate!—There has been a bog shepment of bender cate!—There has been a log shapment of potators and there is an immense shipment of estile, which go by Londonderry There is also a beg market for eggs and butter

for eggs and butter.

2705 If the chunnel were strengthened, would it intrease the tanange's—Yes, it would give us the greater course of course.

270.4 What torrange do you think it would increase to 1—We would get a heet of \$50 or \$50 tons if the terms were straightened. The river is may toothace 370. You "think there would be no danger of its filling in again 1—Xo.

Mr. Horses. 2705 What do you mean when you say the port is providely corned?—Mrs. Ramsay owns one pite and sarcher lady owns another, and both piece are lessed to the merchants

so use morecastion
2707 Have you made any representations to the Con-ported Districts Board or to the Department to-Yes, several We subscribed in Letterkenny, a considerable amount of money, but we have no anthornty over the 2302 Let your position that the Government, or the State, or Parlament, should come in and advance mency for the purpose of incidiating the narrigation !— You, and that we would not be ited down to the one type of boat.

2700 World

Mr. Hennon-continuoù 2709 Would a loan repayable over a period of years must your case?—We have no authority to take dues

I see giving £22 a year for one per, and Mr. McKumey is giving something for another

Zi10 Would you be able to compete with the railway to Derry and with Derry shipping!—We have been ompeting in pec-way years. 2711. With cross-Channel ports !-- Yes

Mr. Field.

2712 Would the merchants of Letterkenny who are sterested in this matter find the mency to promote a ship I—I have no decile they would.

27:5 Would you take that yo in hund, because it appears to me that that it the only way that it can be obser—When I last improvabed the people of Letter kenny they subsambled generously, and we are prepared kerny they enhanched generously, and we are prepared to the an mich as we are able 2724. It is which to me that, if you have a purpose of the control of the control of the control of the class organishing which is purposed to compensation to the present owners—I-well, at Ballyshamon, there were providely owned quays. The pulsae country me of the advantage to Ballyshamon, give up their private interests, and a protail inchancy are established.

sums to
2716. Be the railways serve you at the powent time?
—No, not Lesteckenry, but Durry They penalise my
firm generally to the extent of about 2c a ten. They will give a changer rate from Derry to Limerick than 2727 About how much neaver is Letterkenry to Lamersk 1—About an equal distance. There may be a mile or two in the difference 2708 Your view is that the rullways generally 2718 Your view in that the railways generally makes your first -- Yes,

pename your arm :—xee,

2719. And if you had water is ellities their rates would

come down!—Xee, and the Limerick miller would be
glied to have a full energy at the present time metead of only a 20 ton lot. 2729. Would not that go to show the necessity of taking the steps I have suggested 5—Yes 2721. With regard to the development of the district,

you take it be greated that if the transic facilities was, meaned there would be a finite development here! 25728 Yee said warsthing about Baltonilless per being entered 1—Yee 25728 Heavy your people made any sugarry from the 25728 Heavy your people made any sugarry from the 25728 Heavy your people made any sugarry from the 25728 Heavy your people made any sugarry from the control of the contr evidence of that. Sience of this. Mr. Field | We have not them here Mr. McFanlen | You will have a statement from the

Mr Pield.

2724 Do you deal with merchants as for an Lomertek, Mr. Kelly!—Yes, or The Lomertek merchants evidently prefer to get my meel then the Limotek meal. 2725 And you would be able to supply them more satisfactority if you had better transport facilities!... 2725 Three was something said here about cattle

2705. Three was something used here about eatile gauge to Berry in-Yes.
2707. If you had that yeer at Bathumilian would you be able to simp eatile?—I made stand that they carried eatile from the "Thom," but that was before my day. The oattle sharmer from Letterbergus is very large 2708. Would that not be succher suggert reason why corectings quale to be done in the way of developing

the pott³—Yes

2722 You produce a great deal of agrarultural produce is this district⁷—Yes 2370 And you would be able to gove these bonts but composit—Yes
2321 With regard to the prior you want him to become a testodaire?—Yes
3338 It is a fact that the lights that you placed on

2755 Are the goods that go by Strakane transhipped?

Mr William Gronov McKinsur, J.E., Merchant, Letterkovay, called in , and Examined Chairman.

2734 You are a large meschant, I understand !-- You. 2736 And you can give us some minimation about the navigation i-Probably I am the only one living in Letterkening who remembers the time when we had a cross-Charmel trade traffic to the "Thorn" We had

gave a boat a teturn cargo.

2726 What sam bent!—About 500 tons, drawing anything up to 11 feet. We could get that depth at Even now we can get it to Ballymant,

2737 Have you less water now than you had before? We can get boats of 300 tons up at enungtide 2736 The channel remains virtually the Yes, with the exception of some little variations used to shop about 5,000 tens of coal annually to this it from Dorry here, and this means from about 28 to 2a 5d per for extra. 23'99 What do you do with the expert staff that you used to send?—It has to go over the rail to Derry. until cardishight 3740 Can you tell me about the River Swilly navige S'40. Can you use me arout the saver ownly assigns ten—who is the authority—These is no authority over the River Swilly margation. It we had it im-proved, as it should be, we seald have a very good traffic to Letterkeany. We had the channel hopped with floating buoys put on the river, but they were versived. Good river standards are what we cought to

Colonel Gustion

2741. You have no Chamber of Commerce bern!-No. 2748. Or river authority of any nort!-No. I am lease of this port, if you call it a port.

Chirps] Gretton-contagued. 2745. You are the authority, then?-It is private rosety. I am the losee projecty I as the losere 2744. You have plenty of railway connecting !--We

times 1 get a best time every, see more clear segments to discharge kre.
2745 That is due to the war!—Yes
2745 That is due to the war!—No bests bound for Letter
kenny came unto Dorry before the war. We investigate
them all beesy all my could bests we investigate the duckurged a 300-ton boat at this post-ressels carry ing from 200 to 250 tons tended here regularly 2746 And after the war you will have them, but you feel that if the river were dredged that you would bo acts as pilot.

2740 What will you do when he doe!—If we had

the tree broyed and lighted any man could brang up a vessel. But at present we have only one man who can pilot a vassel.

250 Hare you made representations to anyone shout that!—Mr Ketly has Chairman.) To whom did you make representations,

Mr. Kelly | To the Board of Agriculture, and to any other authority I know. other authority I know.

Wifaces I When the vessels atopped contrig have
that pilot get employment abswhere - ite is really the
that pilot get employment abswhere - and being a pleat

only pilot we over had that could bring up a beat outperform on the court had that could bring up a beat successfully. Others treed it, but the beats went subore and the owners got tired of bringing them up the river. If we had the river properly beyond and the corrects inken off we could have a good traffic to 2751 I Mr. McKINNEY.

2051 I am atraid the corners won't be knocked off to more years !- Private interprise could not enter give a pro-comma with give there is as much corn pro-inced here as fermently !-- There is more this year than I ever any for fifty years.

2/63 Of course you would have a greater export of

Out kind ?-Yes that kindy-first 2004 About the Rover Smilly, you agree that the course eight to be knocked off - Yes, and the progracontent engine to or shoomen on racker, and the principal thing would be to put down broays.

25% Have you any branch of the Industrial Association or any kind of co-sperative amortistics, or any-thing that brings the merchants together. We have

b-operative Flax Association. 2756 But nothing for the general wants of the town?

-No. 3757. You are the leases of the part I—Yes. 2758. Who have you the lease from I—Mrs. Remay, was the owner. She owns the quay and the ground all

reand it.

3700 And she has beened it to you'll she made it
are to hir sim in-hey, to when I now pay the rent
2700 Do you think if the meethants got tegether
they could take steps to acquire that he I thun't buy could There is no reason why they could not

> Colonel John Gretten, M P. Mr. William Field, M P.

Mr Matthew Keating, M.P.

2761 It does not appear to be a very valuable pre-2702 But it would be if property worked?-Cor-

2763 You and those ought to be buoys on the rever?

-Yea 2704. Had you ever got any estimate as to what these buoys would cost !-- We had buoys not down that

cost us shout £200, which was unbeathed by the people 2016. You are not going to get the Congested Dis-tricts Beard, or this Committee, or enjoyee also to help you unless you have some initiative yourselvest. Yes.

2766. You ought to have a local committee and go ahead with the agitation and do something. Mr McPoiden | You will take a statement from the Choirman | Yes, with plansure.

Mr. McFadales. No setting will be necessary? Charmon | No. We are very much obliged to the (The Sitting then concluded.)

SIXTEENTH PUBLIC SITTING - SATURDAY, 21st SEPTEMBER, 1918,

At DOWNINGS BAY, SHEEP HAVEN, Co. DONEGAL, at 620 p.m.

SCHWINGS PRESONT

Mr. Walter Hedson, M.P. Mr. PHILIP MACNUTTY, Secretory.

It was represented to the Sub-Committee

Sir ARTHUR SHIBLEY BENN, M.P., IN YEL CHAIR.

The Sub-Committee examined a number of fisherof the distinct. The wrinceses complianced of the want of transate fieldlites to Crossdough Railway Statuse. They stated they had to go ten miles by rood and the result was that transport was very expensive, and the result was that transport was very expensive, and they sery does left thin to believe they would be foundly Council to the third built on that an articular ways for making the result of the re service, private companies or persons would take the secrees, private companies or persons wound take the matter up. Some proposition to that effect was made, but owing to the condition of the reads no one would undertake to proceed the motor service at present uncernage to provide the motor service at present Thaty years ago the fishermen were supplied with small comagns and nets. They then got into akelfs and yawls. Twenty-five years ago the Congested Daywas got over of a larger type, and they gave the men a lenger to use these bests. A fleet was established on a beaus to use these bosts. shates the beats were hamked over to the case and beams obtain should properly, and the insteated was depouned with. The net need no instruction now, and are well able to carry coit their own buttons. While the past five years a notice-local was intro-duced and about 20 or 30 beats are new working on 1,758.

the bay. It was represented to the Sub-Committee that the Ownty Commol delatined done of 3d per "gene"—harding dines—on all the fish headed, and also a payment of 7s. 6d, per vali and 10g, per power bust twice a year. This amounts is paid to the County Council and realized about 2800 a year. Therefore the witnesses submitted that it would be only received able that the County Council wealth suppose the witnesses. become a would enable the staining to be enlarged. The sthemmen do nig to much matched, although these is plenty in the bay, in consequence of their not having complement that the hardware way halfly wanted to be designed. The temperary cannot; they preposed was the state of their hardware the state of the state of the gested was to extend the Strahame and Lettic kerny gasted was to extend the Strahame and Lettic kerny Rapiwary through Expertions, dispositional energies that meaning among collections, makes are carriedly among proceedings as above every low course proceedings as above every low course proceedings as above every low course of the course of and thus serve places where agricultural grodnes had during thistoca years.

21 Sentember 1918 l

gosled were carried out an enormous amount of fish could be caught. The process now of fresh fish have been largely interested so that no caung was time allowage labour as available and pleaty of the population know best to cure. Largeoved transpart facilities in a matter which, an consequence of the incommed demand for look predicates, ought to se immentative several to an exact the of railway to the faborates is at present 50 miles eff—the nearest status being at Greedough, to the Leonis Smith Rulway The teams to Greedough is entirely dependent on local convenience, beforeing in entirely dependent on local convenience, beforeing to very small farmers. The horses

and curts are small, and six barrels of fini is the unat-they can take at a load, and, at the best, they can do only one joinney in the day. Fresh finh has frequently been detained as long as to considerably determine in gether not. Considerante nearly in as present nurrante experienced at Londonderry on account of the fair having to be carted across the city free narrow game to be in a beauty to be carted across the city free narrow game to blood gauge radways. There is plenty of machine in Decampage Bay which namnot be fished for owing to difficulty of conveyance to rail and as they will not

SEVENTEENTH PUBLIC SITTING: MONDAY, 23RD SEPTEMBER, 1918. At the GUILD HALL, LONDONDERRY, at 10 a.m.

MINISTRA PRIMERY

Colonel John Gretton, M.P. Mr. William Field, M.P. Mr. W. A. Lendsey, M.P.

Mr. Mutthew Kenting, M.P. Mr. Walter Hodson, M.P. Mr. PRIMT MACNUTTE, Secretary SIT ARTEUR SHIELEY BENN, M.P., IN THE CHAIR.

Charman.] May I say, first of all, why the Sub-Committee have come to Landenderry. On the 5th of hat mouth the House of Commune appainted a Select Commune appainted a Select Commune appainted as Select Commune apparent. month the House of Occurrons appointed a Select Occ-milities for the purpose of considering what steps, if any, it is desumable to take to develop and ingrove the atternal scribines for transport within the United Kingdom; to seems effective supervision and or-origaniting; and to ensure that outside the vice of improvements shall be adopted and suitable to filethe national requirements, and to make recommendaand counts of iteland, to make suggestions for their equipment and development, and to visit such places

position to report to our Main Committee at the begin amg of next seems.

Mr B. H. Teld, Solizitor J I understand your Reference does not allow you to deal with railways.

Chairman: J We have get nothing to do with milways, except as so far as they field to offer the necessary facilities for the commerce of the port. Myou have a deceasing the facilities for the commerce of the port. Myou have a deep-water harbour and glonly of facilities for hunding cargoes coming in, and if you have not got tenisport from here by canal or railway, it is our duty, in our Batte Commerce, to comment on the Desport to our Mate Commerce, to commend on the desport to our Mate Commerce. ict. Mr Fodd | That would include the case of remote districts that are not served by railways or cousts?

distincts that are not served by railways or commu-Charmons Yes.

Mr. 7565. I think year Refreence does not allow you to deal with new railways.

Charmons I We can say that there is not sufficient railway communication for irransporting the cargoes into the port—that is all we could say. Chairman-continued.

Mr Rosser Watson, J.P., Chairman of the Londonderry Port and Harbour Communicates, called in

2767 You are Chauman of the Londonderry Port we have already done conserver, man want, we have care related in yours past; what we might have done if we had been able, but we were prevented by several reasons. The choef reason is that we had not sefficient capital to do the thing that might be derive. We have one with a comparatively small recesser, and we have not been able to carry out some very important imand been able is carry out some very important man-processents. We were not quite cortison of what evidence you really want or what your powers wen we happe that they are sumsching of the naters we sufficient. If so, you have come hire at a very opposi-tion to except the property of the postspation of Leoph Bergie and the region of the property of the sea to Leafondary as well marked and all you water of orders we window man doubt those charm of the property of windows the property of th Londondary as well marked and lighted, and there is a minimum depth model and allow water of ordnany spring tides of 19 test. The rese and fall of the tide is times to 18 feet and a wavel drawning up to 25 feet of maker can be said; a waveled trawning up to 25 feet fare is an aururage depth of 17 to 18 feet of water fare is an aururage depth of 17 to 18 feet of water alonguide the quays of 2.W-0.8 T, and at certain

beaths where large foreign vessels are discharged up both water large receipt vesses are containing up to the 22 feet draft, the vessel being breasted aff the quay, about 20 feet. We keep in a very much larger tends after the war. We would like to have, if possible, another deep-enter berth, to provide for formegn-group vessels. We have had, up to the present, and for years used unfilled the best has for the words, course here and unfilled best has for the words to guarant here. receit. We have not, up to the present, we are perpet, and ment berthap for the result densing some 27th Not cannot bring up reveals drawing more than 22 feet?—We can, and we have done so, and we are large vessels drawing 25 feet have been brought up 2002. With the much larger steamers that are being

Figs. 1910 are minds sugger heresony and accommodate height beday, 22 or 25 feet of water won't accommodate very finary?—We recognise that we have not enough water for them, but it is, after all, a metter of dredging and expense. We could have a enlighted bepth by 2770 Has any estimate been obtained as to what it would cost to get 25 feet of water i--- We have a dredger

The depth as have at great in several transpart that man-fine depth as have at great it has been sufficient for our past requirements. The channel could be deepened by dredging. It has so be dredged, on an average, core in three years. I should say that is the average for the last 25 years.

Mr. WATSON. 23 September 1918.] Mr. Field-continued

Chairman-continued be able to give evidence on that.

Mr. Inning

2772 What is the size of the ships that have been surred out by the shippand here ! - I shink 2,000 term in

2775. Would not that draw more than 22 or 25 feet? -Not going out light. Mr Wildem Phillips, J.P., Member of Harbour Bond.] We have the assurance of the managing director of the shippard that the depth of water up-gitle sufficient for any world he would be likely to

2774. I would like to know, Mr. Watson, if you have my obviators at the port for the discharge of grain !any overations as use pore for use orientage of grant 1— No. We will come to that later on. The quays extend-tion the Great Kortheon Realway Terminan to the Book Jetty opposite Mesers, Galilland's Mill. Theal length, 5,780 feet. Weeden whereas for the disabates and loading of vessels have been constructed for a and loading of vessels have been constructed for a longist of Agod beet, terminating at the north and of Quantum Quantum and the Electric Light Station. In charge way my with frees 60 test to 30 test, and the properties of the properties of the properties and properties. The remainder of the quoty measur-ing 2000 test to the Seck Light, is thosy-stocked with stations. This when constructed in front terms. The properties of the properties o extensions of the wharves on the city mosentenances or the material on the city well. This notes, Julyi, manageming 200 feet in lengths, us and as a fitting-out what't in connections with shipbinding. Shed accommodation has been growned as extress perious of the quays fee the cross-Channels trade, transactionate passenger training and general. The quay and what if a the watersone extends from the Cartain Bridge to in-Midland Benlway Terminus and measures 1,300 feet measure nearing recruits and resources 1,800 lists. This wharf is principally used for the discharge of coalleden coasels. The quays on both sides of the record proposed with railway lines, and are connected on the city to for with the termines of the Great Northern. History Transay is performed by the Harsen Cou-missioners by means of less origins, electric capsions and horses at modernte charges. To include the hardling of vailway traffic on the waterside quays the Hardwar Communications have ordered a full-the in-malishm of delocity engels from the Hydracitic statistics of delocity engels from the Hydracitic point to be delivered thereby. Goods ran be dis-commendation to the transport of the exemptation of radives resulting the transport of the exemptation of radives resultion at language are required. The volume seconds in 200,000 ton. I may say that it as a very deep hardgas—longity disputes per ton-der the mor-ther than the same than the same than the same than the the radio volume that the same than the same than the the radio volume than the same than the same than the late and the same than the same than the same than the late of the same than the same than the same than the late of the same than the same than the same than the late of the same than the Harbour Commissioners have ordered a further in-

My Wwtson

2775 You speke of additional sidings for the ampulation of railway traffic. Does that refer to ook sides 1—You

Mr Fun

2776 Do I understand that goods can be discharged direct from the railway tracks?—That is so. That ap-2777. Have you steam eranes?-Yes

278 The only sing that you would require is addi-tional schapp —Yes. And we want more steam creases or the quick discharge of the coal vessels. The tennage 0.178

the principal tends is, of course, the cross-Charmel rade. In pre-war times there was a daily service to brode. In pre-war fames there was a daily service to Clasgor and Greenock, two sailings per section to Hey-shams, and two sailings to Laverpool. Owing to the re-questioning of several steamers belonging to the lanes among to Durry, those sections have seen to the lanes among to Durry, those sections have seen to the same and one to Laverpool. The other mapprisant tration are great, cool, and timber in pre-wer tools the average import of makes into Lordondary; trains are gram, cool, and trainer. In prosent tones the average impact of mains mito Leadendary properties are proposed to the consideration of the supports have tallen off considerably during the sur-ter. No manie has been supported from drosego perior time year. The westell supporting cargos of nation see year. The westell supporting cargos of nation see McCastell and Cox gram weakness. They are dis-sharped by hand labour, and usually take from 10 de 1d days to discharge. Having required to the supportance

discharging maskinery in essential, and thus is one of the problems which will have to be faced after the war. Chairman | What discharge do you give a grant My Threspann | Four hundred tone pur day is the average discharge Caurman I How do you manage not to have the

ease trate or frught pot on?

Mr. Thousand Our 400 tons n day convenients
inity with the ductures at other ports. Beliant is 400
or 500 tons. We are shout second. or 500 tons. We are about second.
Whiteas I have done up to 700 tons.
Whiteas I have done up to 700 tons.
Whiteas I Wat above 500 tons. Bellius and Dublin.

Mr Fists.

5779 Are your people, Mr. Watson, making pro-vision to have these gains elevators—I will tell you about that. I am stafer arminon to make a trill stafe ment on that watter. Some years ago, peobage 10 or 12 years ago, the Chaurman of the Harbory Bond at the time took a great indexest in somestics with these grains into. He felt that we could unjoyed the port by Asring a press site. At that une pains were districtly, and he with our engineer and other members, want across the water and saw the different places where grain allos were working. In conjunction with the relliers here the matter was very fully discussed. We were faced at once with the difficulty I have already mentioned—the expense. That was one of the reasons why we did not proceed further. That reason stands

discharge of grain vessels.

2500 Are you some that there is a grain sile at
2500 Are you some that there is a grain sile at
wateried at the recent time.—Is it owned by the
Wateried Harde Cosmonisceren?

2500 Are able to Cosmonisceren?

2500 Are able to Go what has been done in Water

2500 Are able to Go what has been done in Water

2500 Are able to Go what has been done in Water

2500 Are able to Go what has been done in Water

2500 Are able to Go what has been done in Water

2500 Are able to Go what has been done.

a small purt with comparamyly analy revenue, and we think we have spert the money very well indeed. We spent roughly \$50 000 in developing a shippeard, and we spent out of revenue in the last twenty years not hape another £40,000 on matters that might be charged

23 September 1918.] to capital account, but that we did out of revenue we wish on like that we would be based with the diffi-culty of resting among. The gram mo is a rot a thing could be a superfection of the state of the city of our away revision. The state of the state of the colorating machinery. There is a firm in Derry-M'Orchild and Ca—mot they have put up a also It is on these own precusors, and, of course, confined to their our works. It is not attached to the mree by elevating versels: h Corkell's sile, is thoroughly up to date and espable of handling 5,000 or 5,000 tens of corn 2702 Is it connected with the rullway?—Yes, the grain can be loaded out of the atores into wagers. That is the point I make about the silo—that, if the money port is about 200,000 tons. The coal is discharged by means of steam crames. There are five steam crames and to it the finites and watering quays respec-tively, for the discharge of coal. As in the case of the grain-laden vessels, a rated term round is equally reason of the ract test there is so gittle some on one quay for throwing out the tumber rapidly from the ressels and stacking the same until it can be trans-terned to the timber morehants' preguess. The disrerico to the timeer recontants pressures. The dis-charge is therefore proit-acted, each militates against the timber recedent importing direct, and the Con-missioners are across to provide more up-to-date methods of discharge. There are no timber cargoos coal and tunber trades. As the trade of the root fitting-out whereos, \$0-ton crame and certain machi-nery by the Harbour Communicates, at a cost of shout £20,000, and let to the present lessess at the should sent of £55 in order to encourage shipbuilding and dispreparing in the post, which is now rapidly developing, and in order that this may con-tinue, a motion graving dock is requisite. The disancial position of the Harbour Commissioness is such of coal; additional wharf accommodation for tumber, oad, and other cargoes, additional sidings for the manupulation of railway traffic on the quays. The revenue for the last pre-way year (1932) amounted to revenue for the last pre-war year (1922) amounted to £22,594 and the expenditure to £18,172—credit balance 54,573. The sevenue for last year assembled to £21,821.

and the expenditure to £53,687-reedst halance £534.

Mr Field-continued Notwithstanding the fact that the Commissioners' rates This is due to decline in trade owing to the war and also to the large increase which has taken place in the

prices of all materials, and also its wages. Owing to the war, no deedging has been carried out since the year 1914. This is a very expensive stem, and must be load in the near future.

Harbour Communicator' Function Position

by per cent Consolidated Stock £347,041 6 11

per cent. Debentures ... 4,460 D 0 £151.581 6.11

Annual amount of interest to be met \$5,290 17 0 Reserve Fund .-- According to Section 91 of the Londecisionry Port and Harbour Act, 1864, a reserve

2785 There are two or three points in connectors with your statement about which I would like to ask with Your Materian Account rates a vote, and a set admits of the charged by fromes of distinction. There are for stranged rates belonging to the Hardward Communication and the control belonging to the Hardward Communication and the Communication of the Communic

2787 In setting down a new where, enrely you will be necessed for a deeper channel !—The plans see not on prepared for a deeper distance — The plain see not fully matured, but the instructions to the engineer are to go as far as he can in the river to get deep water, and we hope to have at least a depth of 22 or 23 ft

and we hope to make at reast a depth of 20 or so it.

Mr. Philips I I province you refer to the dredging
of the charmed from the mouth of the river. In ovice
to get up the present dust of water it has cost m, asy,
22,000 or \$8,000 a year when we did this, and I take from the meets or the river it would east us, I sup-pase, anything up to \$2,000 a year, and we have only a revenue of £20,000, so it would be impossible for us to undertake that on selves. That would require Government assistance to a very large extent. We are quite open to do it if we saw where the money was to

2788 Mr. Watson, you reduced to the shinwards?es, the pince at let at a yent of £55.

2780 To whom is it sented 1—The North of Ireland 2700 To whom is it remied —The North of Britand Suphulading Coupany. They got a lease from as 2700 Are they building!—Yes, there are two fix-sings lying at the fittangoust wharvay at the present norment. One was lemathed on Saturday. Both are about 5,000 et 7,500 tons. They are samploying about 2,000 bands at present in the always of the They have 2,000 hands at present in the shinyards. They have developed very much within the last tenire months. £300,000 on engineering shape. Altogether is looks very healthy for shapbailding here. We have tried as

279) Are the shippards using your ground sec-res. They have been using it very lengtly on Govern-ment work. There is a depth of 12 to 13 ft on the sell at high water, and the length is 300 ft. 3798 Oscild

Mr. WATSON.

Chairmon-continued. 2022 Outld that be enlarged!—I don't think it could. There is no room to extend it inland. The Donarassioners have come to the conclusion that there

Calonel Gretton.

203 About the shiphelding yards; is the sent for the whole period of the lease?—Yes, for \$1 years, 2796 There are only six years of the teem gove. They have 25 years to run 2006. Have you taken any steps to sequire any of the

for the purpose I have to acquire work of the latti-for the purpose I have described, the putting down of eargees regolly from the vessels and stacking the tun-ble until it can be transferred to the tunber merchanis'

preniuse.

hir Philips | The Londonderry Corporation his endurated statutory powers recently to take possession of contain lands abusting on the quays for Corporation Dellicoox perposes the Harmon Commissions thought their the Corporation were not justified in decay so, that these hands should be left for the development of the Gretton | The Corporation have already

established their transacy depot there?
Mr Philips | They have a transacy depot that could be better socommodated elsowhere.

Colonel Gyetton 2796. The only alternative, Mr Watson, in order to get some place for your ranking, in to extend the whatves into the river 1—We have very narrow ganys, but shere and the river F. We have very marrow gays, but there are phoses where we could have an additional sub-gical states and the considerably could be considered and the their scale has a simulating the considered that their scale has a starting an common with the trainvers. We handled 200,000 feets of their on the trainvers we handled 200,000 feets of their on the trainvers were the very more of the starting hand to be a superior of the starting handle and the starting handle and their scale that the starting handle and the starting

of the roor i.—The Midland Railway is on the other sele. There is a very large teeffe, as a matter of fact,

and all one precise we had commonly disvertineats traffe from competed our treasurys very trach, because the stranger very not practice of the stranger very not produce to the stranger very not proble well and charge; effect one, and street also public well and charge; and the stranger commonly common transport of the stranger c

279 Could they handle the traffic before the wat? The traffic mercased very much. There were buy shyments of Government stuff. Before the war there was not so much difficulty, became the steamers were

2301 Would at he recessary to make extensions on the other side for the briffs after the war!—We may have to widen it, but, of course, we will be facilitated were much by these new expetens we are putting down as against horse hashage 1801. Is the tradic on the other side handled by the soon. Is the trade on the onser into manuscript the Hubbar Commissioners or by the rullway companies? —By the Harbour Commissioners. The rullway con-pones take up the stell when we have brought it to the entrance of their depots

Mr Zindsoy 2802 Can you say if Londonderry at my time has had State numerance !- That is one of the things that AND NAME INSTRUMENT THAT IS ONE OF THE GAME THAT IS NOT OF THE CASE OF THE STATE OF

Mn Leaday-continued.

mage from the Government, or from the Irah Somety editor
2803. Notibes the Harbour Commissioners nor their
predecasors 1—Yes. Our Act was m '64. They were
privately owned quays provious to that. 2001 The Commissioners never had any outside Was there any assistance gives in the building

of the bridget-We have nothing to do with that, 2505 Your pulsebeton extends from Movillo to where !—Lifficed Bridge 2807. The river as supposed to be navigable to Lif

2807. The river is supposed to be navogable to Lif-iced—It is numbable to Strabeste Cazal. [2008. Down the river, are not the unrange sharp at places.—There is one difficult turning at the Crick, but we have had very lettle difficulty with it. I don't retarriber any arrors difficulty with its. I don't retarriber any arrors difficulty there. There was one stoomer only in my time that had torolds, but she when the contraction of the contraction of

9399 Do I understand you have a dredger !— Yea.
2310. What sort is at least happer cheedger.
2311. It is weeking new !— No for bear years.
2312. What happer cheedger.
2313. What happer cheedger.
2314. What happer cheedger.
2315. What has reason that you have got it lying up !— There was no real need for it. The channel has

year as to the state of the charmel and where dreiging is required 2814. Are some of the berths not quite so deep as you

kee are no complaints.
3215. With regard to the railways, I understand that
they have no direct communication with the quays?—

the railway companies' pressures
2016. Has it been your experience that stops have
been shouldtely delayed on the harbour on account of
the absence of indiway wagings.—I can hardly say that
the absence of indiway wagings.—I can hardly say that I on met timzk it would be quite irue in say that. There have been tunns when morehants, particularly amendants, have complianted of the warm of wing out am benut to say that the morehants are hany sail served into sognes. Of course, in the last four years there have been difficulties.

257. I understood that these consumers did hap-

2011 I smallroom took years are at 2018 That is a very serious matter, because I need not still you that the larger you detain a vessel the more expenses of set—Yea 2813 And they would be less makined to come to say port !—Yer 3820 You want more space for the coal tumber and

occur I co. was a said spec on the cer small and grant in Ter.

2821 How do you arrive at your reconse-hure you dues on goods and adopt in Tes 2828 What is the tails that you realms between the ten-half and half shown in Ter.—half and half one half and half or the company are the company and half one of the company are the company and the company are the company are the company and the company are the company are the company are the company and the company are the company are the company are the company and the company are the company a Mr Heaner

5503 What as the conflicts of the reserve fand-510,000 lo-We have at possest a neservo fand. I may say that by an Act of Parlament we are obtged to have a reserve fand of \$10,000 for entroordinary re-ceives to the harbour. Their reserve has been specied at order, so that our reserve fund is really very small

Mr. Post 2824. It is mortgaged !- Yes, that is the word.

Mr Honnes 2025. Your Communications spent 220,000 in developing the port in the last twenty years?-Yes 2326. Yes 23 Sentember 1918 l

Mr. WATSON Mr. Housen-continued

2025 You said 550,000 was spent on the shippards? -That was not all spent in 30 years, but we spent a read deal of memory on the quays. We bought new great deal of memy on the gasys. We bought new cranes. We spent a great deal of memy-early \$99,000-in 20 years building sheds, paving the quays with sets, and other improvements. 2557 Does the summary you have given towards the can of your evidence, before dealing with your finan-

2828 289,000 would cover all your requirements?

I should think it would protty well. We would require more lairage accommedation for cattle. At present of

is not sufficient. We have not proper lairages.

2839. Have you a large export of eattle from this perit — Yes, we had experted in 1963-114,336, and in 1917 VAJTOR 9830. In view of that entermens live-stock export tasis, have you made any efforts to provide proper larrage accommodation, or have the steamship com-Mr B S. Origon, Sometary to the Londonderry Harbour Communicates | The steamshap examine

Wifeen Our cattle pens are considered very good.

Mr. Field 2831. May I suggest, Mr. Watson, to you, that you should said that lazzage accommodation to your list of

the part !- Yes Mr. Hudson 2632. I understand that you take the traffic from the

Make I enterpend too you have grays, and that railway companies at the end of your quays, and that you marshal it yourself—Tee, that is so. There is m-and-out traffic. We take it up from the depote and archal it orradres 2003. For said that you attach great importance to

having quay room that would allow you to get sufficient

Cherryan 2542 You have heard Mr. Watson's evidence?--2345. Is there anything you would like to add to it i 2045. It (here anything you would like to said to us.

—I cannet harely add anything to what Mr. Watson has said except to say that the Harbeur Commissioners are most awayers to bring this port up to date. They are most arguests to bring this port up to date. They feel that after the war, unless the facilities at the port feel that after use way, unness the assumes are per-ate very much better, they will be infet behind in the tree. The only thing I have to odd is that I hope, as a result of your inquiry, that some assistance will be given to us to being this part to the state that it could

2844 Your distributes gues by real and also by 220 year outside a distributing port l—Yes. We care quite a distributing port l—Yes. We practically accounted to some five or sax counter from here. We are going down to almost the benders of Sign, and accordance further than that, and then we would be the same for the same state. supply county Tyrone and also county Decegal, which supply county lyrone can also occurs Baseger, where is, I need not tell you, the second largest county in Ireland. Altogether, this is a very considerable dis-

2346. It is the port for expost for quite a large area of country i—It is. In fact, traffic is drawn as far down as Cones, Coran and Slage, so that facilities are

2347 Do you consider that you have got sufficient shapping facilities here for the needs of the surroundsupplies securious new ser une necus or the surround-ing country?—No, I dun't think no. Do you refer to the cross-Channel traffic? 2848. Yes !-- Anatond of large ships coming in and taking some or ton days to darcharge, it is absolutely neces-

Mr. Hudson-continued. space to deposit cargoon when you cannot get relivay wayous for coal discharge 1— You. 2804. And then, I climb, the evidence was to the effect that in vory few instances did you fail to get wegens I—I was specking of the general desific when and that more than the coal traffe. I do still an

[Continued

I said that more than the end traffic. I do nill any that out steamer an edesyed frequently for wast of wagens. Scenetimes, puthage, two or three steamers angel come at one time and be substrated, and the radiumy compenses could not preside sufficient suggests. See they the results working. Occasionally—that year, the seed of the seed of the seed of the seed of the country of the seed of

the radius; companies are rather in a difficulty,
2316 Is not there any regulation requiring the may
chant to give so many days' notice for the wagons?—
I think there is, but it is not easy initially to give

2207. You get some sort of intimation that they are coming?—Yes, but the war has upset that, 2838 I think the complaint has been chiefly on the city rife. Has there been any answer from the railonly there. This takes seen any suswer from the ran-way companies to the complaint that they are not gra-ing wagons !-- They daily that they have been short of ing wagons re-they easy that they have been sacet of wagons, but I am not making any surrous complaint appliest the railway companies, because I think they to

2829 Is not it because you do not give them suffic actors that the wagers are not available?—No I do not think they say that B is impossible lately to always give notice for the time when the steamer will always give access 100 time time when the seconds and altive, as it arrival is unsertial. \$240 You have not any specific case that you could give in evidence to shave that the ruleway companies excuse was that they had not sufferent segons 1—No.

Mr. Lindsoy.

3941. Your debentures are being gradually paid off? -We have £4,000 at 3 per cont. which the helders can

Mr. Willams Peritors, J.P., Member of Londonferry Harbour Board, called in; and Examined. Chairmen-coatinged sary that they should be discharged in two or three days. We would require to have a grain elevator here as much as any other part if we are to hold our own.

north less than than they are at present. The Har-bour Communicates have carried out all the improvewithout State assistance you to give the ships that cauges here you to give the ships that cauges here you to give the ships that owns in here to take away i. We have no cauges for foreign vessels. They come in with Indian com or

2880 Have you anything to export for them !-- No

2351. Con you get saything in the neighbourhood!

Not in sufficient quantities. We have not a suffcient quantity to offer to such boots. When quantities Gen quantity to offer se such boots. When quantities have to be sent it as latypely for cross-Characel, and we have not sent itself and the composition of the control of the control boots, of course, take cittle, and things like that 1—They do. They are quite ample for the transport actions Charact.

2855. I understand you are connected with the Laird Company 1—Yes 2854. And you are the oldest member of the Har-bour Beard 1—Yes 2018 Journa - 168
2055 Four company do their beatness very well.
Tor do a large business in the expect of cattle? - Yes.
2056 Way not large pressure to bear on the Her-beur Communication or the Corporation, or someone interested in the bre-stock industry, to provide decent Mr. Freld-continued.

house accommodation for those cattle while they are greating shipment !-! suppose it would be the right

2857 Is it not nearly time to do the right thing?

—Derry Post is a small place 2830. I wouldn't like to say that !-- It is a small port compared, say, with Dablin. A great many people in Derry provide accommodation for catale, and the cattle dealers really poeter to have their cattle

eattle. I may say that it is only within the past treelve or eighteen months that the Harbour Commissioners been approached by the cattle dealers for some

2659 Will you do your best as a Liftd man and as Harbour Commonumer to provide that accommodation which is necessary !-- I will, and I will sak you in points to ammit the Harbour Board Mr Kostése

2860 You are familiar with the financial history of he port!-Yes. the port !he port I-1 es. 2841. Ind the Irish Somety provide funds to develop

2862. Nover at any time !- Never at any time within my recollection 2863. Who are the holders of the debentures at 3 pet 2022. Who are the history or the occurtains at 5 per out 1—Thry are the local people here—the old people belonging to the city who have got such confidence in the Harbtur Beard that they know that they have only

to ask for their money and they will get it at once, 2856. I share that confidence myself!—Thank you.

Mr. Dindsoy. 2265 Considerable expanditure has been made by the Harbour Communicates in proposing the harbour?

2006 Has that expenditure, on the whole, proved renumerative -- With the exception of the money exreasurerables — with the exception of the period apon the shappend, it has . 2857. Do you think that the expenditure that you contemplate will be remnaterative?—Not at present . 2868. Will it be dead weight!—It will be dead weight.

for many years to come.

2800 Bringing in no revenue!—It will bring in a cortime amount of revenue.

es. 2871. There is no estimate as to what is likely to be

e morease in the revenue t—cos. 2072. Is that a business-like way of undertaking ennumbitured...We have not committed ourselves to that

You contemplate at ?-Yes There is little doubt that before we undertake responsibility we will have to arrive as conclusions of that sort. What is the real distance from Clones to

Durry !- Bighty five railes. 2075 Is it not rather extraordinary to bring the traffle to Scotland from Clones to Derryl—No. It is the direct route. We can give the traffic as good a 2876. I earnot agree with you II you look at the map, Bellish as the shorter route to Gissgow?—Derry is the direct conte, when you take into consideration

how little the rulexy line is congested as compared with the Belfast section.

Hr. B. S. Chirre, Secretary and General Manager, Londonderry Harbour Commissioners, celled in; and Examined

2877. You have heard the evidence of My, Watson !--

Yes, sir.

2878. Have you anything to add to that !—No. I think he has gone over the whole ground very well, and think he has gone over the whole ground to bring under mode all the pumps that we desired to bring under your rollies SUP You would like to may something in reference to the hange accommodation for cattle mended for shappend 1—Yes, Sir. There is no larvage accommoda-tion for cattle intended for shappened from London-

tion for cattle instanded for shipmons from London-fery. Impaction pean have been presided by the Harbour Commissioners on the Queen's Quay, where cattle, sheep and page are placed for suspection by the impaction of the Department of Apinchiars and Post-haud Institution for Ireland. Cattle with annual to shaped on the day of arrival in Londontitry have to

Yo provide adequate lairage accommodation hardship.

the shapping berths, and to over thereon suitable covered pers for estile, shoop and pays. This is a accessity, and will, of course, involve a considerable outlay. The following are particulars of the lives 1963 to 1917 inclusive -

Year Cattle Sheep. Figs. Horses. 114,325 98,614 28,327 29,968

Ms B. Graman, Secretary and Manager, Straham Canal Company, called in; and Examined Cheirman continued

2830 I understand you are secretary and manager of the Strabane Canal Company 1—Yes, ur. 2831 Can you give us some information 1—Yes. I have prepared a statement. The Strabane Canal was Owner. The cannel room from Strahmer and joins the true Begin et he length of it is 4 miles and 7 perchas statete, the width of top 51 ft, at worker level 27 ft, wife at the bottom, and 9 ft, 6 mt. doop, 9 ft, water on the stills of the lesks. The canal was constructed aboves article; over 6 beginning, and the hinter soom to have been formed by the material examined, without the construction of the state save noon nomed by the uniteral examined, without thy regard to suddling, and they have been constantly a some of trouble. There are two locks, 100 ft. long by 28 ft. broad each. The first lock as three solless hore Strahame and the other quite near to the given

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Foyls The canal seems to have been weaked on behalf of the Marquis of Abercorn from completion up to the year 1833, when it was leased, but no record seems to have been kept of how that company worked seems to save been keps or now man confiding worked or in 1860 it was bessed again to the Strabura Steambost Company, who worked it up to 1890, and that company went into voluntary liquidation. It was bested again in 1890 to a new company called the Simbate Canal Company, Limited, formed with a capatal of 25,190, for 31 years at a yearly rout of £ 00; they neek was reduced about 15 years ago to £220. This reduction in cent arose by the owner of the canal or the homothestry and common analyty Company for chanings to the caral owing to a variation of their plans. About your years ago the present Duke of Abereous add his interest in the canal to a few Stra-lams marchinis for £2,000. The lesson—owing to the loss merror annually in working—applied to the new

28 September 1918.1 Mr. GRAHAM.

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Chairmas-continued owners for a reduction in the rent. They wrote thay would consider our ambiguiton, but notwithstanding repeated requests to do so, no reduction has been made of the rent reserved of \$330 per surrum. The sarrings for the present financial year commencing let May average £16 for weak. The loss I estimate to the lesses is, say, £200 a year, exclusive of less of dividend leases is, say, 4500 a year, exclasive of lies of stratages on capital strainly-si, and deprecision. In 1996 the tomage extract was 13,481; 1600, 16,000; and this was gradually increased up to 30,681 tern in 1908. The Dangal sulvay extension, Studene to Derry, was opened in this year, and, from the date of spening, sur, the Great Northean or in the property of the Communical Spring to the conventions to the same and Companies; owing to the competition the immage self-to 18,000 in 1902. About this time an arrangement to 18,000 in 1902. About this time an arrangement was arrived at between the two nathways, and the suffi-on the casal increased to 25,224 toos in 1904. The average smaller than for about ten years was 25,000 tons; in 1924, 19,250 toes; 1997, 12,325 toos; and for the immanial year sading 59th April, 1925, 0,300 torm. Develocity ways used from the extension of the com-Divisionis were paid from the year after the formation of the present company up to 1911 I on 3 to 6 per cent. Sence 1911 no divisionis whatever have been paid or any sum set masse for dependence. The loss for the last transcal year was \$300, exclusive of deprecention. The present leases put on four pairs so this that a new surveyer are artificial focuser, part of which is really an equeduct; the banks on this feeder require to be raised and the feeder in other postions despende as a permanent representent. The feeders are annually elected out in order to prevent the de-posit reaching the causal. The water supply from Ballymagorry burn is aboutent in the winter season sufficient, and the canal fire bons occasionally doose for a few days. That reprive a surgeousted by a national restriction of the large fire of the control of the restriction of the large fire of the large fire of the control, any 24 to 54 it, and prings from the length, which would give a centaint and peopleted supply, which would give a centaint and peopleted supply would be of dutantings, and the time at Revision en-larged. The Genial Congrupt First often curring good-lessed The Genial Congrupt First often curring goodfrom Londonderry to Stratege for Kowtownstowart Castledorg, Castledor, and Clody, etc. This traffic has been lost to the Canal Company, owing to the unitway company reducing the rates per rad to those stations. During the spring months we have carried artificial measure from the Ulater Manure Company, Luabally, intlengs terminating there to above, and use in the writer. The ice-breaking apparatus consists of a bargo shorled with oren. All towing is done by horse power. The banks of the canal as constructed would not admit of the use of mobile as constructed would not admit of the use of mobile.

Cherryen-continued can only be not by an annual subsoly being garm to whose windertakes its work and maintenance—it has always been the means of keeping a check on the rad-Strateste; almost an the trains on the cases as carmo, by the company's boots. Thire are no by theodern on the canal, with the exception of a few send boots. The Royal Commission on Circula and Waterway, bill in Narch, 1811, recommissed a grant of \$5,000 for m.

2882 How many book here you got 1—Ten lighters. 2885 You have no power langua 1—No. 2884 Have you considered towing the boots with matters 1—Ten; it would be convenient. 3885 How are the barges leaded 1—Overside from

2005. How are two swager.

2005. Have you say estimate of the cost of dividing

2005. Have you say estimate of the cost of dividing

the canall—No., I have not, air. I am airmá is would

take a special sert of dividier. Occurs up to Strabas
you have got many miles of write—Time.

2007. What is the river like 1—The river is all right

Convolutions. The channel shifts in the river. 2027. What is the reverse.

yp to Correlations: The cheaves shifts in the rever
practically at every log food
2020. What depth away on got un the channel—th2020. What depth away on got un the channel—thcheaves a start in a print; take

which is the control of the rever to the control

to the best on a lay at 3 ft.

5000. What is the hold of the rever to Gravel.

5000. What is the hold of the rever to Gravel.

2001. And you have that 9 ft. in the river except ist

9809. Do I enderstand you to say that the canal hanks were made almost enturely of beg land?—Yes 2983 If you wanted to repair them and to prevent them leaking, would it cost a great deal of money 1—1: would cost a commissible amount of monoy.

3994 Did you ever dradge the canal I—No, we have
not dredged it, but there was a hopper dredger from Dury weeking on it. It was not entistisctory

mpry weeking on it. It was not satisfactory.
2995 You have not a designer of your own i—No.
2995 And nover half t—No.
2997 There are cattle greating on the bank t—Yo. on the feeder banks.

2508. And breaking them down !—Yes. 2509 Chance yes unit that off !—It is a question of watership. 2000. Has it been your experience that the railways

the canal as a competitor !- it don't know that they have limited three to shut up the canal, but they have To got the traffic !-- Yes.

2002. Does it not amount to the same thing?-I

3935 Has your company entered into a working sirangement with the natively in regard to rates I—No, we are independent. We have nothing to do with these They saked us often and often is came in with them to fix the rates, and we refused.

2004 If think you told us senething about the pre-ferential rate by the radway I—Yes

2005. B is cheaper, you told us, to skip goods from 2005. Hi is cheaper, you told us, to ship goods nor-hubby to England, there by Denry, to Strabane, at a cheaper rate than direct by hall from Dablin to Stra-hanol—Fee, that has been done for years. 2005. You have no stores in either Landenderry or

2005. You have no stores in either Londonsery of Balance b. There is one in Studence 2007. You comnot expect to get goods unless you have 9907. Yes counts expect to get goods unless you have descent stooms—No. 2866. Have you say idea of applying electrical power or melont power to mopule boats—Out lesse ex-perse in those years, but I understand the owners will focus a company, and that in the intention 2000. There are no by-frenker working on the canal

2910. Have

Mr. GRAHAM

Colonel Gretten-continued a run for a few cut, of goods. We exampt do that, and as owing to war constitues.

2015. Are there any general complaints?-No; these are only the complaints I have mentioned 2016. Are these the only complaints 1—There always have been minor complaints. It is very hard to satisfy

2017. When there are only 3 if of water in the river, what death is on the sill "- a bout 9 it, on the sill.

2919. So that the sill does not require lowering?-

Mr. Fid2-continued. 28th Hare you had any application from them?

None. These may have been a few about boats.

28th The only thing you are in a had way about is gell. The only thing you are in a use way stores this parties of the river which requires to be dredged at order to get over the difficulty of the toise 1—Yea, and not rear a cond but of the difficulty. I often at order to get over the discussy of the Date -14s, that will get over a good but of the difficulty. I often wonder would the cost be worth at, because the char-nel shifts in the river, and we could not get an ankean in high water. We must sent our mailings so as to be

at the hocks at high water.

2812. Is your company responsible for the uplease of the canal 1—That is a point I den't like to answer. Mr. Housen] Three years bence that question will

2013 Who trade on the canal-All the merchants of

2914 Are there any complaints by the tri

that we should put on a steamer at the cost of 23 or £4

-I would have to say that I have not received any re-

You wish to give us some exidence, Sir John?

3800 Do you pay No. or mechanis pay Derry does on their goods. We pay no dies. 3321 We had evidence that the Harbour Commu-sioness were supposed to keep the rever up to Lafford mange :---ten
382 I suppose if the Harbour Commissioners were
compelled to dredge this portion of the river they would
charge !-- Tes. 2965 You suggest a subsidy for the canali-Yea, or, better still, a grant.

Ser Joure M'Fanname, Bart, Shareholder, Strabane Canal Co., called in; and Essantred would be a greater benefit to the truffic of the place,

on a gross teaturity to demonst. Any outsit parts the in the hands of the owners—those who paid \$2,000 for the Duke of Abstecra's rights. I certainly counts con-

plant. At the present time, affecting the Societary columns the present time, affecting the Societary extension the loss at \$500, I estimate it as faily £1,000. 2855. Do I understand that you have no direct movest in the casal further than that you have these shares as security for a Sonn that you made !...

Bndgs !—Yes 2822 I samp

2007. Do you consider that if the conal were shut down it would be a calesmity to the people of Steabane!

200. The only way that any evidence that you could give would come under our relaxence would be if you would tell us how, if that canal was improved, it Poyle Navigation Co., Ltd., called un; and Examined, My Treonas Elliott, Director of the Strabone and

2028 I understand you are a director of the Strahane and Foyle Navigation Co., Ltd. :-Yo, esr. 2020 You have heaved the evidence of Mr. Gruham? 2930 Are you in agreement with him!-Yes, so it?

as the facts and figures are concerned
2001. You virtually agree with what he said!—As to 2003. Two virtually agree with write to exceed the least and figures, you and the least and figures. The property and the least and figures. 2003 Care you and the way to the least and figures. 2003 Care you call in a what you fink a would be a good bring an order to improve the decilined—The could be a seen to be developed. The could improve to be developed, and in the master of excitations, shown and another plant are required at the translate of all moderated requirements, shown and another plant are required at the translate of all moderated requirements and the translate of a moderate for the could be remarked as the contraction of the could be remarked as the contraction. The country of the countr

existence in three years time, and naturally their ober in no go not an quadry as they can Hall all the larges are out of working ceder. There are only hall of their meaning. They say that they are principled to their meaning. They say that they are provided to the control of My Company would be very slow to emberk on any using out the meaning menedate improvement that would be absolutely necessary to keep the timin going, owing to the high prices, without maintaine. The put-chasees of the Duke of Abeveera's inferent are mar-chastes in the town of Strabene. All of them are in

trade except myself. The sole object in buying the trade except mysell. The sole circet in toying the canal was for the benefit of the town. They understood that the last witness, Sir John McParland, was offer-ing to preclute the fee muple for the express purpose, as they suspected, of offering it to the railway. I can-not add anything to Mr. Grabhards that was in figures. not said anything to Dr. O'mbrate haza and figures that I do not approve with him altogether as possible I do not represent the him altogether as possible reasons. Yet Grobon complanted of eatile graining on the heat. I understand also company list the granten of the heat between the control of the heat in the granten. If a grant were be node, I voted signed that it should not be node to the cristing entrying company. My company does do with to grant per a day around its understanding the control with the grant per any many many or any company does not such to grant per a day around its understanding the property of the granten in the grant per any many that are meaned in any control of the property of the granten and its understanding the property of the granten and the

2534 I understand that the fee simple was obtained by year company in 1912 l—Yes, 1912-15 2635, And you have got no direct interest in it except in respect of the fee surple, which comes to you in

2026 And as your company is composed of husiness men who have brought the carnel to make it useful for their braness and the town, I expect that in 1921 they

—Yee.

Styr. If you per increay into its now, it would all cense back to you!—Now it would be possible to put in what would be conceaux;

or not not conceaux;

the conceaux of the conceaux;

the conceaux of the conceaux;

the conceaux of the conceaux of

18 feet safely
2000 What is the bright under the bridges f—All
the bridges except the new realway bridge, are
movable bridges, and the new realway bridge would be
stifficiently high for ordinary traffic. That allows the
steam tog through without lowering the founds

g 2041. Supposing

2041. Supposing the Canal Company was not running. 2041. Supposing the unail Company was not running who is the authority that would stop in?—I dent have of any authority. The lease of the custing entrying company contains a chance to maintain an

Mr Hennes

2042 Had you may relations with the Board of Weaks !--My company has not, 2045 Or the lesses company !--I cannot speak for them. The lessee company, I think, had some negotia-

2944 Here you not to make a return to the Bourd

2045. Does this count serve any place except Strabane and Denzy—is it practically for the advantage of these

2947. In your opinion, does a sufficient amount of traffic error between Strabane and Londonderry to justify the spending of a los of money 5—Yau, 2345 Is at not the Steabane manufacts that purchased the canal 5—It was 3949 And it is their concern !-- You

2000 If it is worth carrying on, would they subscribe sufficient capital 5—They intended to provide the

2051 Would they do so new !-- I cannot say It is only three years before the lease expires. 1960 Is not Soy John McFurland owner of the canal?—He is owner of the eartying company

2065. How was it that you chi not appear before the Canal Commission?—We were not in existence

Mr James E O'Donnerr, D.L., representing Burcouna Post Committee, called in; and Examined

2057 And you don't want any further furthers arred 2008. That would not come within the terms of to Stream or terms are to investigate and to report upon the facilities afforded for transpot by the ports and causals, and the question of the processor of the facilities and the question of inspectation of the facilities 7—1 deat to unit to occupy your time.

2009 I am explaining to you why we are helpless in

the metter |- I doubt it very much 2000 I don't doubt it at all |- tre you going to abanden a fishery?
2861 We have nothing whatever to do with fisheries

of affairs. Hr. Estate cont this we not even ex-255,000 by the Development Commissioners for the de-velopment of Lough Swilly. We did not get a penny of that, and we have come here to tell you that anison Mr. Herry Hoxy, General Manager and Sometary, Londonderry and Lough Swilly Rathway, called u.

2654 I understand you represent, with the Secre-lary and others, the Flor Committee at Bunciana's

You It is a pure that was established percheally by local inheritables, principally led by the limition of the yeloo, and by a loss from the Grand Jaryo. 2585. May I firm of all sele of you if you have our terms of releases. I firm of the arm arrows that the insapper, is connection with one of the greatest flathestes in Ireland should be developed. Chicoramately, as are to-day a commutee without a peer When we had it developed to the extent of 10,000 term a year and had been promised a grant by the Development Commissioners, the was broke out and the Admiof fish by cart a mile away, whereas the rulway is within 200 yards.

2955 The fart is that, at present, the Admiralty

Charrenan 2062 You wish to give us some evidence?-After what you stated to the last witness, I do not know that I have any evidence to give you that would come within your rafesinge. If you are only dealing with smaling facilities, I am alruid I have no evidence to offer the evidence I intended giving had reference to pus-2965. Is it a fact that you have got the promote of the money when the war is earl—The Donagal County Countif, or some other body, have recoved the premise of financial support from the Government to the correspond of Braconn has a supplied an above conting my company here the year growned a Bill in Parliament, and contemplate the building of a con-necting line from the entiting railway at Buncausa to the proposed harbour works, became they are con-varied that Buncausa does ofter inclinities for traffic 2964 That is very interesting?—I here prepared a statement, but it was propared perhaps under a mis-approblement as to the entirest that should be given. I was instructed to apologue for the sheare of the I was materized to apolyme for the absence of the Chairman of our coupseay, who is away, and is ea-very well. The following is the statement which I had prepared. The Confession and Long Swell, for the Postman of the Confession and Long Swell for the Boursman of the Confession and the Special the Postman of the Confession and the Confession of the Boursman as a suppress and dalayed the Confession and Confession and Confession and Confession and they was provided as Bill in Portisanness which guide Confession and harboar works when the in this proper and the Confession and harboar works when it is minicipated will kinestly

Chairmon-continued be carried out 2. To own and work steamers from Burstram and other places on the Lough Smilly 3. To erect new station premises at Landonderry 4. To indenderry is the natural market centre, or as a place of cell for overseas boats. Prior to the war the herring flaking industry resched to a matter of 10,000 tons a year, and with an extended harbour accommodation it year, and with an extended incident accommodaton it might easily have been much more. The trade is cattle, even, potatons and other footstuffs from the Franci Pennaula and the general morehandists in the opposite direction would be greatly facilitated by the normanon of botter incidents at Eurocana. The discorract, to sense in the corresponding to numerical seather in the kome industries or in its position as a shapping centre, for which it is so eminently unliable. The directors of the L. and LSR Company will be gird at any time to confer with the proper politic paid at any time to confer with the proper politic backers as to the complete pressure of all the nuces-

sary arrangement's and facilities, and if need be will saler into a bending agreement for the satisfactory coring of all the traffic to and from Bungarana. Mr. Field.

2965 What would be the length of the connecting

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has from the counting milway at Eunemans to the new harbour works which it is anticipated will ultimately 2866. It will be a bread gauge 5—At present the line to Binorana is a 5 it gauge, but if the development of Benerana requires it, I don't think my company

2270 I understand that you are one of the Solicitors to the Dengal County Council !- Yes. I represent my pariner, Mr. Wilson, who is the official solution, accurate to appear oscore year committee and so owns, laten you some matters which he considers of imper-since to the county. Unfortunately he was doubtful as to where and when you sat. From some words you was some time upo I gathered that the subject matter

of year magasty we carefung facilities. STIL Excepting facilities and suggestions as to how these facilities can be ungreened—There are two-control gardeness in County Decreate, and these gentlemen are here at present, but if understand that is wanted to more convenient to the Committee of these greaters are the convenient of the Committee of these greaters are writing and that you would give these times in writing and that you would give the same commission nor art you occumum different five same commission to art you occumum different pleasures are the properties.

a witness, the state of the state of the state of the state of the Samuel to the Camanta, because I would also the camanta, because I would also the the state of a suggestion that there should be another pare count, and there is ample room and space for such a pose. About the southern division of the county, there is a pive at Burtospert, and the County Cunnell, before the St John's Point, in Doneyal Bay. The fishermen there cannot fish properly. They have to use light yeals, and that will be one of the motters with which the County Surveyor will deal. At St. John's Petris the takery requires development body. It is quite class to the cristing Denegal Railway, and it would be very important if a connection were made. Would

Obsiens 2022. You represent the Chamber of Commerce of lasteniorry 1.—You Associated with the Chamber of Commerce are the various local councils. The Mayor

in President of the Chamber of Commerce, but is un-lectromately unable to attend. I was saked to bring before your Committee the question of railway develop-[The Witness explained on a map the points to which the Chamber of Commerce were of opinion redi-

may facilities were required.] 2083 I understand the Chamber of Commerce ever plan that they have not got proper transport facilities

0178

Mr. Field-continued. would be arrose to putting down a third rail to facili-tate the transfer of broad-gange vehicles.

Mr Hudson 2907 I would like to sak whether the Ball as bring minoduced next Session !-- It went through the Com-

2008 Is the intention to introduce it in the next Season !--We supect that the Bill will go through.

Mr. Fuhl 2969. There was no opposition in the Commons to 14.5 - None at all.

Mr. J. F. A. Sinces, Solicitor, segrecenting Solicitor to Denegal County Council, called in ; and Examined Chairmes-continued 2973 It is not a port !- No It is close to Killybegs

Killybegs is a post, and there are also mere there which require to be looked at, and with these the County Surveyor will deal. The railway runs right yest St. John's Pemt 2004 This is very interesting, but I den's think it comes in unfer our Reference —II the County Survegers deal with these matters in their statements they will be looked on sympathetically. 3975. It would give us information !- There is another matter that I have been asked to bring under

2076. I am aimed that is outside our scope?—It is a much-moded work, because the railway at Glinties stops short of the natural outlet

Mr. Field.

2977 Are not Killybegs and St. John's Point under the Congosted Datricts Board "--Yes, the whole County Donegal is 2008 Would it not be their function to de three nght be I think it is nearer to their function than it is

onlify 2980 The Sub-Committee pool a visit to Downing's sy Too represent the County Council -Yes. 2981 I understand that in Downing's Boy your 2861 I uncorstand that in Downing's may your County Council realise about 2800 a year in the pay-ment of 3d per "crap," etc., and that the read to Occadingle is not in a condition to sunt a matter ser-tice. May I salt if you would bring before your County Chairman I I don't think we have any right to ask

Mr. Surme to do that,
Mr. Feld, I promised the fahremen to draw the
attention of the County Council to this matter. I
think it is an extraordinary thing if the County Council the about make the roads smitable.

Charteness | Yes cannot take that statement, Mr.
Simus, as coming from the Committee. It is the

Mr R. H. Topo, Selector, representing Londonderry Chamber of Commerce, called in; and Examined. Chairman-continued

over a large arm of eccutry that would otherwise be supplied by the port of Derry !- Yes I thought it better to put before the Government a scheme of railway improvement applicable to the whole of Ireland and to get all sections to press on the Government, and I have propared a mento on the respect. You will be able to understand the scheme from this map. (The Sitting then emchaled.)

Note.—This matter did not come within the Sub-Committee's Terms of Reference.

EIGHTEENTH PUBLIC SITTING: MONDAY, 23RD SEPTEMBER, 1918, At the Town Hagi, Coleraine, at 4 nm

Memiana Present
Mr. Matthew Keating, M 2
Mr. Walter Hudson, M.P.

Mr. William Field, M.P. Mr. W. A. Lundsay, M.P.

Colonel Grotton, M.P.

M.P. Mr. P. J. Hannen
Mr. Petter MacNetty, Servicey,
See APTHUR ANDRESSY BENN M.P. 18 one Confe.

SIS ARTHUR SHIRLEY BENN, M.P., IN THE CRAIN

Guarrien J May I say first of all why the bub-Grown mittee in here On the 5th of less month the Heaven Octavances appreciated a Select Committee for the purpose of section and the select of the select of the purpose to develop and the select of the select of the select of section particular and the select of the select port workers the United Kingdom; to secure effective port workers the United Kingdom; to secure effective port workers and the selection of the selection of the sexiable to resed the relational requirements and to make recommendations. Thus Select Committee appointed a

to place and common of articlarity, we man suggestions from the property of the purpose of the process at the process at the purpose we have trained a member of poots, and we have not been proposed, and the purpose who have been proposed, the conceptor describes and aggregated processing the processing the processing the processing the processing of the processing the processing

gate and report upon familiass for transport offered by the ports and canals of freland, so make suggestions

Mr. William Hexux, Secretary, Coloraine Harbour Commissioners, called in; and Examined
Chairman—continued.

2984 You are Secretary of the Coleraine Harbour Commissioners 1-Yes, silv. 2085. You are going to make a statement!-Yes the improvement of the merganom of the Rever Ban. Lades in section Act, var. the River Bans Navigation Act, 1805, the Coleanne Town Continuousers curried of dredging of the river bed and other works at a cost of £22,255, but these were meffective for annegation purposes until the zirce entitions had been desposed and mide safe. The works authorised by the Act of 2000 consisted clushy of two shorts mobile at the entrance 2000 consisted clushy of two shorts mobile as the entrance work all elections in accordance with peaks property or the late Sir John Coole, C.R. of London, and, with the addition of a training bank subsequently con-structed, one 173,799 Under a title Act, viz., the River Bana Nangation Act, 1886, a railway was made connecting the harbour with the mean line of the Northern Country—now the Midland Ballway—the retings leviable under the Act of 1879 on the town of results sivilate some one art of 1279 on are own or Colorains and portion of the country of Loudonbury. Of the original mortgage debt contracted, a sum of \$14,500 receases unpaid, exclusive of the debentures on the harbour milway. The major loan is being referenced \$14,300 reteals unpaut, exclusive of the detentions on the habbur minary. The maps foun is being referenced by an assuming of \$2,000, and will be estinguished in a section from of \$2,000, and will be estinguished in a section from of \$2,000 and will be estinguished in a section from of \$2,000 and will be estinguished in a section from the section of the contract of the contract of the contract of the contract of the large results of the contract of the contract of the large results of the contract of the contract of the contract of the property of the restriction of the contract of the property of the contract of t revenue. Some years not the rate was down to 54 or the £, but this year, owing to reduced income caused by the war and other adverse circumstances, the love by the war and other accents consumers to be even higher in in 554 in the S, and threatens to be even higher man year. Though the expenditure has been large, the navigation enterprise has been quite a success Whereas the harbour revenue in 1331 was only \$230, Whereas the harbour revence in 1881 was only 2220, it had risen in 1914 to \$2,518. The tenings abstred at

the port in 1881 was 6,554, and this had increased to F1,125 in 1814. The bostowing powers of the Harbour Commission are exhausted, and, owing to war burstice, the resources of the Hon, the Irish Society, who have the resources of the Hon, the Irish bocoty, who have so generously supported the Board in the past, are so reduced that there is no prospect of any further and from that source in the near future. The stone moles from that source in the near future. The stone moles constructed on the other side of the river entrance in the years 1889-1883 on the whole served their purpose of removing the said har at the mouth or the river. The outer or seeward ends of these motes have, here ever, gradually schooled, and do a length of about 400 feet (one-muth of the whole length) they are no which they were had the seward ends of the males. The Harborz Commet-soroms are, therefore, freed with the pretion of mining shouse are, therefore, freed with the pretion of mining the neldow to their congonal level, and, of possible, as tending these sunseable flowfore saward. Uptil this is done the shifting said, which is present in large quan-tities will costic occurrent shells, which seniorally hamper, and endanger the cettance of shape. The Bound commet freez Moure Code, Sox and Matthews, Down country over momes (come, on here measures), the custome engineers of London, a report on the subject, dated 22ml December, 1910, in which they reconstrud the resums of the level of the cast mole to a satisform height of our first above high-water mark, and the trust mole also, if famile me programble, the estimates at that date being £21,000 and £11,000 respectrally. It is in order to carry out this vial and accounty work of rusing the Ired of the sust mode (the seconary work of young the level of the near node the west mole to that off the present that the Corres-sources solumi an application for Government assait-ance. They wish to post out that the peri of a large transport of the control of the territorial of the angular control of the control of the control of the charget may be summarized in the follow degree of discharge. The importance attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of attended to the hardwar is shown by the adaptive of the control of t heavy flunctal burdens in order to carry out the pro-jects already referred to Not a perny of State and has hitherto been saked or received Odcoune Harbour is hitherto been subset or rootwod "Oelenam Harkoust in well equipped wash fatellitted for the capit leading and fatlooding of vessels. These has been a studency an rootst parts to concentrate terms in the larger ports of the concentrate terms in the larger ports congestion on the railways, but also thereing heavy difficient invarport cests on the people of such di-tects on Coloration As the senific returns thow, the port has been extensively used during the last 55 years

Mr. HENRY.

for the export of agricultural produce, and to retain this and other traffic it is essential that the moles absold at least be restored to their original height

3866 What draught of water have you got?— Vessels drawing up to 15 feet can be accommedated, but, as a rule, 11-13 feet is the dramphs. At spring tide there is a rise of about 6 feet. Where do you lighten in case you have to lighten 5-There is no lightening.
300. Your moles are 800 yards long?-Yes, about

2089. What water had you before you had the moles? About 3 feet 2390 You have no idea of getting more water than 15 feet 1—841, that all depends on the abbits to early out the improvements. We believe that if the East Mole was reased, to the height suggested by Ser John Cooke, thus the depth of water at the entrance would Code, that the cepts of which it the customs when he erry much improved. 2891. What about your railway communication !—We have a railway right on to the barbour. 2868. On to the quiya!—Too. We have two steam

2565 Are they movable cranes?—Yes, they move on 2000 Are tray motivate exactly bring in here!—Our largest motivated litera would be easi. In normal times we had a general traffic. We had a regular rese-channel traffic between Gluagow and Coloration of 2945 What did you ship out?-Chiedy agricultural

Cattle !- Yes, but not recently. When the 2006 Lard Line was running regularly there was a cattle count.

3997. You had to bring in all your soal from the other side?—You.

2938. Is there any other class of vessel coming here bondes Cross-Channel steamers !—No. Some years ago we had occasional cargoes of timber from amortiz and Neway, and also petroleam, but the recent bradescy has been to import to the larger harbours, especially in regard to oil and uniter. 1899 There is no eathing resed trade now—No There was a large traffic to different British ports.

Mr. Hawnon. 3000 Your definite proposition is that the East Mole is defective, and that the efficiency of the harbour depends on the efficiency of the mole !—Yes

NOL And that in order to put the nole is proper condition you want a great of \$22,000 from the State, the local rating power being enhanced i—Yes. Mr. Field

2002 Have you a diredge base 1—No.
2003 And therefore you are unable to dredge that
portion of the river which constitutes an obstacle to
the results—Draigung would not be a sanisfactory
reachy became of the exposed position of the harborn rentery, seemes of the exposed position in the automoter entrance. If you directly to the sand. 3004. You want to utilise the scorning power of the first to act as a director!—Xee

3005 From what do you derive your revenue!-Ship-The property of the property o

NOS. In that because there are superior facilities for leading and unloading at the larger ports, and that the ressels are detained for a shorter time !-- No, not

Chairman 3033 Mr. Barrio, you are Chairman of the Coloramo Harbour Commissioners !-- Yes.

Coloxel Greffon 2002 Is there my considerable itselfo in the upper reaches of the river into Coleraine Harbons I—No. Rr Locch, the Sacrelary of the Lower Barn Navigation Trustees, is here, and will give particulars of that.

Chairmon-continued.

erpal export of agreemblant produce was pointees.

2013. Across the Chansul — Yes.

2014. With regard to live stock, had you a consider able coppet of live stock from this poet. Yes, we had anic expect of my stock from this pow-law, we find
3015 Con you give me any ules of the number 1—1
cannot say without referring to the books.
3016 Is that expect continued now!—No The 2016 It that export continued now!—No The Lund Lines sulfage are suspended temperately diring, the war. A great many of their books were con-markered, and they had to carried their services, and, 2017 The Pre-shook trade has gone to oldare protof To, to Londesterry or Belliam 2018 You received no financial assistance from the Government or any other source ekeept the Iruh Powerment or any other source ekeept the Iruh

Mr. Field-contamed.

3010. Where do they go to generally 1.—To a great many of the Cross-Channel ports. We had a regular

exporters of gram.

3012. Was that the principal export !—No; our prin

3011 Had you any import of grain!-No; we were

in our case, because Calera quickness of handling traffic. quasiness or handling trains.

3002 How many steamers have you coming into the
port at the percent time!—At this present time the
whole traffic is upset. In ordinary peace times we
would have between 500 and 400 vessels in the year—

service to Glasgow

because Colerains has a reputation for

Security — That is so.

3019 And this is the first application to the Government!—Yes

3020 Your borrowing powers are exhausted !- They NOSI And you are not in a position to meet ex-penses of this kind?—No. Mr. Hudge.

3022. I gother from your evidence that the railway insilities to your port were quite sitepasts provided you had the necessary post a ranagemental—Yes 3363. You said that the competition of large ports 3000. You said that the competition of large govie with smaller cases has a tendincy to congestion upon the railways, which would inside smaller traders ge-tain an oppositually—Yes. 2000. Does that effect you here—Yes, very much I know that that winter we had to import coal by Bolists and Larne. We had difficulties in peculiar direct adaptoms, among the guester sufficiely in

since slignessts, and we had the greatest difficulty in getting unlessy transport for it. 2025. In that owing to being unable to get feesels into your part here?—Yes. 2006. Cheely on account of the entrance?—It is parily the difficulty of obtaining shipping owing to was con-ditions. The reason was that we are situated to the west of Bethin Symd, and there me difficulties in

week of Devian count, and more are difficulties in carrying on traffic from the Sound, and the shipowhere wood another route we will not affect you

Mr. Lindson. In your ovidence you have told us that so many thousands have been speat on the navigation?— Yes. Allogether a sum of over £105,000 has been ex-pended on the Bann Navigation works

3029 Your Commissioners are responsible up to the look!—No, their jurisdiction runs from the cutte to the eas 3050 What is the draught of the river!-About 13 feet at low water 3651 I gather that what you want is a grant, not a lean!—Yes. We have no borrowing powers, and, as I have mentioned, there is a biarry enough levy on the ratepayers at the present time, and will be for some

Mr. Hvon T. Banarz, D.L., M.P., Chairman, Coleraine Harbour Commissioners, called in ; and Essentiaed. 3034. Do you desire to confirm the facts as set forth in the statement submitted to us by your Secretary !- Mr. BARRIE

I do And I would like to add that the effects of the marker commissioners not that may are not just not make further secretice to make further secretice to maintain the Nanophica Works for which they have already done on much. The Harbour Communications of the secretic se already usons on man. Ann manhour common data been un heppe of rotating ear pre-way revenue until our major lean was cleared of us us years hence, but owing to the shrinkage of ear, set returns from the 1906 level of £3,513 to £515 for the financial year enting Slat March last, the deficiency rating of the township has become so onerous that it is impossible to think of increasing it. We hope that the Sub-Committee will present mineral orba count not have seen forefeen ay the Hurbary Commissioners, and they are not such as they can reasonably hope will rapidly peas. I would like to emphasize the point that we have never asked for any Government assistance. These works have

been initiated and carried out by a fernier generation of Culevame marchants who have done much to make the measure and harmon out of a secure pleasance.

The measure of the measure of the measure pleasance of the measure of the present of the measure of the present one at the extracts the the rever at the present one at the extracts the the rever at the present one at the extracts the the rever at the present one at the extracts the three or the present one at the extracts the tree of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the present of the Weeting of the present of the prese where a little deverment help would be so valuable as at would be to as at this particular time. We cannot penally tax the comy higher. We have raised the rates from 8.5 to 1a. So may higher. We have raised the rates from 8.5 to 1a. So may higher. We have raised the rates from 8.5 to 1a. So may higher the form to go any further we would be at the 2, and if we will to go any further we would be at the 2, and if we will be a supplied to the complete the state of the supplied to the supplied Laird Line formerly came twice a week to Colerano not the someond of the Mole we find ourselves losing a

transfranced the survive with adulty on would call a good constrict data without greenous for martie serrors; and so our saids transfer in the back this deads on our saids transfer has dead to get a survive survive to the survive survive to the s 500 tens at a times instead of 200 tens. We den't want to langthen our ristement may further than in abso-lately necessary. Mr. Andrew Clarke, the Vice-Chargman of our Harbour Board, will make a short Chalvesen NMS You are personally aware that our Committee on Inhand Thansport is not a discrement Committee. It is not up by the Hense of Committee, and all nor it is not been also as to report to our Main Com-mittee, and they, of course, well report to Parliaments!

3036 I presume the Colcrame Harbour Commis supers have made an application to the Government !-

We have made no application to the Government less any assistance. This is the first time we have ever addressed ourselves to them.

My Public NAME Would it not be a good thing if you made an application to the Government, and it would assist

Mr. Field-continued us in any recommendation we might make !-- If you Sold I am only making a suggestion !- The circum-stances are altogether exceptional in our case. Lost

standed are quogether exceptions as our case. Less year was the first year that we found our trade airmal-ing so alasmangly. I should like to say something when Mr. Challes has been examined. [Subsequently Mr. Barrie was In their questioned by the manubers of the Sub-Cramittee] Mr. Rannes

3039 This is the centre, Mr. Barrie, of one of the most intensely cultivated agricultural districts to Inclined?—Yes. 3000 I think it is true to say that the agricultural reduce in this part of the North of Ireland is, acre produce in this parts of the Morte of Areanne is, acre for acre, probably higher than in any other part of Ireland?—It is no good, anyhow.

3041. And the marketing of that produce would be

304. And the montaining of some protect events of promoted by the davelopment of the port f—Yes 3082. From the point of view of the development of the port and the opening up of the country, do yes think that mercaned facilities at your part would react

3943. I was accessed to-day in Derry, not directly that as a Belfast man I was prepared against small ports "-We would not asyspet you of that 3044 Dot not the steamship "Forn" take passengers from Coloranne! — Yes, the service carried thousands of passengers for many years to the West of or Belfast

3045 And that would be quite an mecavemence to Mr. Hudson 3046. You are quite of epinion, if assistance was given and the pert was amproved, that that would not only help you to get back to your old position, but you would have a growing trade—your general produce and naports would be generally a growing volume t—Tes I aftern what has been and as to the high standard of

The contrast manner mounty has grown more unu-5 per cont per annum, and so bogs are being unhausted coal is more then ever becoming a source of revenue. in did so much to tunn up 3047 And to make it better?—Yes, it would naturally get better. At present we are only aiming at maintaining at

Mr Find 3648. You are of spinson that, owing to the efforts of the Department of Agriculture, the produce of this country in regard to food has increased greatly? Chibronumy.

3048a And, from an Imperial point of view, it would
be useful to send that food to England 5—Yes.

3049 And therefore, I take it, this improvement in.

your port is absolutely necessary not only in the in-terests of Ireland but of Great Entain?—We think so If we localize it again in regard to the farmers, before the war we used to have large constars bringing in coal to be raised up because her shipment there at a cost of savishing more than 80 per too for milesy ironsport alone. The farmer has to cert the goods across Belliaus and then pay a higher freight than formerly.

Bellius and then pay a higher frought than formacly. 360. The rate, owing for was of selfillies, is more than double in the case of pulsates 1—Yes 395. I understand that Colonian was one of the largest expecting parts for politics in Ireland 1— 2600. That is very important.

Mr Keefing. 2003. Is it a fact that, owing to the discontinuance of boats to South Wales direct and thereby enabling . Mr. Barrie

you to get a return cargo of east, the price of the potatoes has decreased and you are deprived of the coal !—Yes. There is a directors in the shapment of

23 September 1918 l

Mr. Axenew Causer, J.P., Vice-Charmon of the Colectine Harbour Commissioners, called in; and

3664 You are Vice-Charmon of the Colerane Huz-lett Commissioners, Mr. Charles - Yes. 3055. Do you desire to confirm the statements made by Mr. Henry and Mr. Benne 1-Yes 3056 And you wish to sid screeting?—Yes. The scole at the inverse time to said screeting to the arry, we are advised, will not mak deeper, so that in their stone deposited for the purpose of reasing three level will be a permanent job. If the neignfum is not

loans, there would be the much greater cost of freight a sufficient depth of water to permit of steamers of the rement burthen making use of the out, we have no task by agrilat cross-Chancel steamers, by which the while of the occurantly greatly beneficial or purchase while of the occurantly greatly beneficial or purchase the largitum was been also been for the proper for the largitum we have been also to pre-for suppression. It is to be a suppression of the state of the produce of the leading occurant in Lishad, for export of form produce, as no much with the Sealing, Units or grobine from here you to great expense on brighting depost here is as to this produce of the state of the produce of the produce of the pro-tings canted by us. We here mode and belt this task of two may grays, and are now among an to be se-turally caused by the produce of the produce of the large transport of the produce of the produce of the large transport of the produce of the produce of the large transport of the produce of the produce of the large transport of the produce of the produc 3057 Do you consider that this improvement would

to worth £1,000 a year to the post 1-I think so 3058 If you could make the improvement for £21,000 would be only £2,000 a year!-We have not any 3059 You would get a loan 5-Our berrowing powers

3060. There mucht be some arrangement made !-- I Mr. Barrie, M.P.) The net effect of our adopting year proposal, Mr. Chairman, would be to sek the ownship to guarantee \$3,000 per anum on the top of the heavy rate which we have to strike this year-an solitional rate of another is in the S. That would be

Cincern Could you not get permassion from the Treasury to moreae your charges? Mr. Storre I This shrinkage is 75 per cent of our no 75 per cent of one

moreasonable. An additional shilling in the £ would Mr. Hadden-I take it that year shinkage has been gradual from 1824 to the present tune, and that it has now reaches the greatest point of shrinkage? Mr. Barrie J Yes.

3061. With regard to the cattle trade, Mr. Clarke, I precume that, having been out off from overseas shrp-ping that that trade goes by rail more—Yes. 3062. And do you think that the cattle trade has 3052 And do you think that the cattle trule has been smously hinked thereby "-Yes. The value to the producer must be affected by the difference in the the producer must be affected by the difference in the freight, but, owing to the present very high purses, I would not say that production was lower. The rail-arg now is almost entirely to Belfast. 366X. I take it that you are of opinion that if this note, was built, and that the vessels were able to come in, that the law steek inde would come back again.

3004 At the present moment Durry is almost in the same unfortunate position as you are in regard to the seems amountable position as you are in regard to the live stock trade, and in your case the live stock must go to Belfast*—That is the difficulty that arises in Some chain with the some of sea that we are on X68. And that diminishes the profit to the live stock owars and leads to the determination of the sattle!—

Mr. Kestero.

Mr. Kostey

306. Is it your openies that the supply of cattle
and 50d to the other side has diminished by the
adescent of hashines from these chartents—I think
assessed the faithines from these chartents—I think
assessed to hashine from the chartents—I think
assessed to the control of the control
assessed to the cont 3009 The impression is that the volume of produce sent from this post was so great that it neight he hindered owing is the difficulties in the hindered. There is no Grade that it is hindered. The expirit of postrice has been very large from the poet, and we had a good spell last spring, and this was, of course, a hencid to the local farmers.

Onload Orefton. 3059. What does a penny rate in the 2 produce !-

Colonel J. J. CLARK, π M.R., Changes and the Londonderry County County, called π ; and Evantured

2000. You will give us some endence?—I have been away for some time, and I have not been looking into this metter as I should like to I had no iden that an afread I cannot give you my very accreate informa-

there should be help given to the Lowis Bann Tristees

3071 How do these cattle go now!-They go around by Belfast. A few go by Larne, but the great bulk go

H W. Lance, Secretary, Lower Benn Navigation Trustees, called in; and Exempted

3678 You have beard the evidence that has been non "-Yes There was not much time to present a 3072 You have heard the evidence that has been goven twice. These was not much time to progete a statement. Our supermittedent, who would be stry useful heart, is unfortunately in England at present, but we have our forcean, who will be able to give you any infernation I cannot supply. I may state that the Lower Emm Novygation extends from Lough Neigh to the Lower Earn Navagation extends from Longh Neaph to the Entigle of Colestins. Its length Cochairs of atom 10 miles in Longh Neagh; is a little over 22 takes. It show includes the part of Longh Neagh in the common of Amiran and Londonderry. The River Barn as a tird rever fress the Cuttes above 1½ miles above Chiramas. It connects the Peri of Colestanes with the results and the Longh Earn Surgistion. The the rankelation of the Uppe Eure Nartgatico. The nartgatica water of the whole district of Lorgit Nearly, nartgatica water of the whole district of Lorgit Nearly Deve, were companily in Derry, Amenja Tyron and Deve, were companily in Derry, Amenja Tyron and Deve, were companily in Derry, Amenja Tyron, Deve Cartestin and Maringas review under the substitution of sectors Statutes. By an Act of 19 and 30 Tyro, Cup-col (1960), "to syncuring the management of many parties of 1960," to synchronize the presence of the pre-pressure as relating to evaluation of the pre-pressure as relating to evaluation of the con-traction of the Companies of the Companies of the durable into the Upper Euro Nantgation and the Lower Burn Nantgation, and the Lower Euro Nantgation and counties, haroates and tormlands chargeable studer as well to be used by the Countiesoners of Pallic Works, with the congress of maintaining the savga-tion works. By the award of the Countiesoners of Pallics Works, "In relation to assegnation medicalises tion works. By the among to an expansion undertaken the Publish Works, 'In relation to mangatom undertaken in correction with the party in the distinct of Lough Neath,' made on 12th large and 15th large and provided upon that the total amount which has been expended upon that the total amount which has been expended upon the Upper and Lower Barn Nongation amounted to a mid-th Upper and see the provided of the p that the total amount which has been express, or the Upper and Lower Blum Nempsian monated to 250,079 fbs. 40, and the Communicans awarded that the sum of 251,072 fbs. was the perion to be that the sum of 251,072 fbs. was the perion to be kendled thursby, as specified in Scheckle A to the send, and paytie in the propertion theron means, and payties are sufficient to the properties of the same proportions as set out in reference to the said sum of £37,137 Ms. The method of raising the sisti sum of got of maintenance is prescribed by the Statute, and the County Countils of the counties of Antron and Londonderry are bound to present and levy from time to time the estimated nearms of six months' expenditure in advance, as furnished by the trastees. Were it not for the raffway systems at each measure. Were the filter primary of each make of the rever, the arraption would no don't be used of the rever, the arraption would no don't be considered casualli for goods traffic but for many value from the opposition grantening absorbed the value traffic of the opposition grantening and the sole connected thereoffs, modeling the zero and the work connected thereoffs, modeling the result of the connected thereoffs, modeling the leafs, but make a few forms of the connected thereoffs, modeling the leafs, but makes a few forms of the connected thereoffs are traffic results in talk receipts. For the period of the supervisoration in traffic receipts. For the period arranged about 1841, he are sufficient to the last few years this plant man for 853 in the last few years. five years they had rusen to \$63 In the last five years to meanly \$132, and the receipts from the same source to Relaxy LLOS, RMI use receipts lows use note seems for the first sur receibts of this rear security of almost £150. The increase, of traffic represented by these receipts is to be attributed (a) to the deceased which has arisen for the expect of Datoropic clay, which can be obtained in large quantities as different places along the course of the river, and in which shows a sum of the property of Preceding demands are frequently used a upon them from different parts of the Navigation at the same time and dissensatization is caused by their boing unable to

comply. The trustees are under the disadvant their their present dredger, which was longhi in 1833, is now practically obsolete. Having regard to the present rate of magna, it is important that dredging should be calried out economically and that all machinery should be up to date. A new deedger would now cost probably \$5,000 at least. Unfortunately, the now cost probably \$5,000 at least. Unpersonately, its trustees have not any borrowing powers, and if they were to estimate for a sufficient additional sum in any gooming traffic and the interests of the agreedment districts along the river, in which there is a leading to take advantage of the Navagatom for the corregance of temp produce. At present the traffic is unfaulty confined to the upper half of the river, but 16 is reserved from the reserved of the product of the confined to the upper half of the river, but 16 is reserved to the reserved of the product of the be an increase of traffic at the upper end, but consider, able traffic night be developed from Coloraine and other places at the porthern and H is therefore your other places at the northern and. It is therefore most desirable that the trustees should be in a postlop, to purpose.

2073 Who owns the bargest—They belong to the by traders and to companies such as the Inland Navi-

Clearmes-continued

3074. You simply take the tells I—Yes, 3078. What is the size of the barges I—I do not know exactly. The looks are 130 by 20 feet and are a uni-

rm length
30%. How much water on the still 1—Seven feet. Six a feet is the water pro death along the channel or 8 feet is the minimum depth along the channel 3077. Here you a uniform depth of 5 or 8 feet of

SITT. Have you a unassess of the case bridge oncept this one bridge another this one bridges here !-- We have four bridges. 3079. Are they swing bridges?-Yes

3000 What can you get undormenth those beniges!—
I don't knew I touget how many feet. I think it is
7 feet elter at ordinary high isde at Colerance.
Mr. Burrit, M.P.) Coath can carry 100 tons.

Mr. Field.

3661 Our you tell me, Mr Leech, if your looks are all in good condition !-- I think so, except sometimes the gates require repairing. I think they are all practically in good working order.

3082 The only thing that is militating against your navigation is practically the want of dredging I—Yes.

3083 That is the most serious obsiruation I—Yes. 3084 If you had a servel bridge here you would in crease your traffe!—If we had the channel properly dredged I believe it would.

3085. What is the beason there is such a difference believen the Upper and Lower Bann?...Well, I cannot very well speak for the Upper Bann 3930. You are of opinion that in view of the fact that 3000 You are of opinion that in view or ine theo ma-the suffery runs alongstic the river you would be able to successfully compute with them for agricultural pro-duction of the strick them is need reason to think so. There

Mr. Hudore 3687. Con you tall me whether a number of the barge owners. have had their barges laid up for want of trade). I presume they went absorbers.

owners have the state of the control by on the canal?—No But our freeman has a confecful knowledge of the river, and I think he may

[Contonued.

Mr. Harles-continued be able to give you that information, or perhaps Mr Great could tell you. Mr. Francis Grant, J.P., of the Lower Bann Navaga-

tion I About mine barges. Mr Lieday

3000 You said, Mr Lorch, at the beginning of your evidence that the Lorer Bann Nivigation axtended from Lough Neigh in the bridge of Colormon, has the Harbour Commissioners told us that they were represented up to the look T-We elaim: radicalettee to responsive up to the look — we alson juminished to Coloratine, but it makes no difference, as there does not appear to be any traffic between the two points. Our last work of any consequence was the weirs and the cate of the locks just above the take.

X001. Do you make any distinction between the riv

2001. Do you make any distinction between the rives off this lough see to tell "Latedy we are not getting asysting from the length. The traffic was very low, and request was made to us by the Inland Navigation Company to take off the felf., that it might lead to increased traffic, and that was done temporarily.

2002. Two got no tells !— None from the longth.

3003. You are not a stang to or a grant !—No.

Colonel Gretten.

3094 How is the revenue of your company made up !-- Whistoner we get as expended on the maintenance

305 The amount of tells and does are small 1—Yes, 3056. In these any other sort of revenue's—A triding thing like a rent, 3007. To what points do the canal boats shirtly trade? From Portglenane and also from places between Portglesson and Ever Ferry, where several private wharves are being built, and then New Ferry is a great place. There are now wharves everded by the United Kingles. Part Mess Company, Lod. Trade goes from that up to Beldost. I undiversall that a very large agreedistral

3008 Have the trustees ever been carriers on the mail—No. We have no right to do that 3009. You have no power!—No.

Obserment.

3121. You are one of the Lower Bann Navigation transland—You 3312 And you support the originate submitted by Mi. Leuch, secretary to the transless I—You. I would need to mention that the policy of the trustees in recent years has been to transless our descriptions. offering every possible facility for at to those ground, while at the same time learning the differare trassees were to become the scatterery small grant which will provide a modern dredger, they are pre-pared to embark on consederable outlay in coder to got the present minimum dought of any feet sub-stantially increased. I would like to point out that the maintenance of the avergation of this supportant you have it exploited here and developed. We have easy a revenue of about £250 'We promise to have fully £500 this year. It does seem to perthat, after fully \$500 this year. It does seen to increbit, after the wor, this titles as going to skay with essential the wor, this titles as going to skay with essential the work of the state of the same that we have a state of the same that we have a state of the same that we will be same the same title with the railway. There was no possibility of which is sufficiently for the same title same titles and the same titles are not seen to same the same titles with the same titles are same titles and the same titles when the same titles are same titles and the same titles are same titles are same titles and the same titles are same titles and the same titles are same tit

Colonel Gretten-continued 3100: You are in the position of collector of dum to the County Council and are responsible for the main-tenance of the canalit - Yes, and the wome and up-keep of the navagation generally. Mr Hauson

NOT. Do I understand you to say that you don't want my assessment at all—We only usual a dresigner, want only assessment at all—We only usual a dresigner, wanted secretains—A dresigner, as a limit that you wanted secretains—A dresigner, as a limit that you allow What is the sement you know in your mind-town the mast. What formed dresigner cost believes the mast. Whe formed dresigner cost believes 22,000 and 42,000. If we do not get the full amount of 42,000 we mught kney the burght hay the burght and your of 42,000 we mught kney the burght and you Mr Fold

3104. Can you levy it at all !- Yes.

Mr. Housen

Mr. Honnen.

3105. Is it a fact that \$250,000 of public mercy has been spent on thu navigation 1—267,000 was Government wavery, and in addition there were level contributers invoked in developing the navigation, and so far be result has not justified that onliky 1—28.

3505. And your perposition to improve the Bann Navigation, as that more public memory be agent upon th—A small sem.

MIW Would the expenditure of that small som gree
a return for the amount of money already invested indeath only it would make it self-supposing, but if
would tend to morease the traffor recepts.

Side The containing of sinures, you only, it to use the
root more than proconsisty—You also be a sinure of the processing of the processing the proSide The contemposition would be largely affected
Side Our contemposition would be largely affected

by the national value attached to your scheme, and the definite fact is that £104,000 has been already expended on the development of the Bann and, in your expended to make in effected?—Yes,

3510 Do you believe that the Navigation could be deepened still further?—4 on alraed not, but I speak without any definite knowledge.

Mr. Hvan T. Banner, D.L., M.P., Trestor, Lower Bann Navigation, called m.: and Examined.

Chairmes-centifined. impossible to compete with them. As regards our putting on boats of our own, all that is possible now, and is as a suggestion that the trustees would like to comader. What has probably presented earlier enter-prise was that unfortunate clause in the Radilway and aright, that is going to be a thing of the past. I don't farmers said say," we ware 20,000 for a new oreoger.

If we had that dredger we could increase the depth of
the navigation, and every our inches you increase the
depth you double the one of the ressel that you employ. dopady you double the same of the reseal that you employ. That is whise was beloing for. As reparsis the Lower Bona from the lock to Chermane, I confien at once that the hare seen these than the confirmation of the lock to have seen these. But under zow confidering that will be different. If we get the river entranse use as all stogge of the belt, you would have that develop-ing the confirmation of th than this improvement which we done to make If we had a constantial development on the river I den't think you would find the people of Othersins branch to the recognization of the bridge which cost \$40,000.

Mr. Lindsoy 3113 Who owns stil-The County Council. I think may say on behalf of the people of Coloraine that

Мг. Валия

they would not stand in the way of internal develop-

ment

3114 Novre in history has there been any tending
done to Coloranse!—Pareton ms. Sixty or 70 years ago
there was a tracking vessel from Scotland went up the

5116. That was before rathway days !-- Yes 3116 Nothing has been done for all these years?-That is so

5118. You are a trustee, Mr. Grant, of the Lower Benn Navigation !-- Yes, asr. ann Navigation — res, bar.
3120. You desire to make a statement — Yes. The JUNE 100 GRIEFS TO THESE A STATEMENT - YES. The Lower Bann was opened for traffic in 1889. If has been reautained since, first by a demand on the old formed Junes of Antries and Derry, who had a right to appaint the femices. This daty now falls on the difficient County Councils. The yearly denoted of lade has been about £200 from cost council, considered considerably exceeded for special works. Owing to the want of tartific the trusteen have allowed the river to get out of order to some extent; they did not con-sider it has to the misequers to make for money to heap the river at the depth that was engenally given them, when the lettle did not warrant it. This rever has got salled up. Now the traffic is improving owing to a peculiar day which has been found along the banks of the river between Toome and Kilros. This day, being a high-demonstrative or measurant cond, in some angray is of covering betters and high-heat presume bricks, dies in the manufactors of dynamits, etc. Fire con-panies are now working that desport not also peak. As there is a plentiful supply of the latter, a big future him before the peak industry. A patent fortilize called "Bits" is manufactured from the peak. Four motors lighters are may object from this pace. Four motor lighters are may object in river between Tooms and Particlement, and sometimes they go right through Lough Neigh to Balfast. There is also a hig agricul-tural distinct on each side of the river, and, as no railsural distinct on each side of the river, and, six of call-way scommodation is convented. In framers again, way scommodation is convented, the framers again, produce to the narrhot. The brookes have to latest to complicate of lathest genomical complex mentioned depth of wellow. The Secondation early mans partiag leaded. He said vaves done, I and of opinion that makes of being a less to the natespaces of Antrica and lightime will problem by the convented attenuised in the platform will problem by the convented at motic lightime in the near factor. In an quite ware that, after the way, a greet imports would be given to the traffic way, a great singeton weakl be given to the truths or this trever it is went out not prompt condition to make the commit table; and the corroughing districts Process and Othersian! If the fiver Edm was paid in order, we could thup out from Ballycastle to the dif-ferent form and the size of the process of the could result from the process of the process of the could be a size of the process of the process of the could talk with the process of the process of Tomes that the country on which tolks were paid at that obtains in 120 to 25 th Springer was 100 to 100 to 100 to 100 to 100 to 120 to 25 th Springer was 100 to 10

Mr. Lindsey-continued. 3117 One would rather like to find out if there ;

3118 You are of opinion, Mr. Barris, that if the improvements are carried out, as suggested, there would be a development !-- I think the posters in most

Mr. Francis Grane, J.P., Toome, Trustee, Lower Bann Newlystics, called in; and Examined.

Chairman-continued. 3121 You heard the endeace that was given hare

to-day !-Yes. 3122. Do you agree with it !-- I don't agree altogether such the Leech's evidence so far as the cost of dredg ing is concerned. He only puts the figure at £5,000 ing is concerned. Inc only paid was again as any of the river 3123 How much would you say !- £20,000, I should by I include the dredging. The river is out of

3124 Would it not be a very great benefit to the farmers if it were put into proper condition 1—Yes. They could market their goods better.

3035. So it would pay them to do it !- It would at least, A would be a great benefit to them

Mr. Lindson. 3126 You know the river for a long time !- Yes How long is it in the condition you describe? -25 or 27 years —20 of 27 years \$128 De yes know the maximum draft of lighters in the Lagan Navagaines 1—85x feet. \$128 It >> 5 ft., as a matter of fact. You have got more than 5 ft. on the Rann 1—No. gr. we have not.

3130 Those motor lighters go down to some distance below Tooms !—Yes. 3131. How much do they draw?—About 5 it. fully Lower Bann; noam crops since an certain pasces 3132 It is quate a new thing to me to hear of a shortage of water on the Benn!—It is a fine river. 3133 There is not much wrong with sh—No 3134 You foul's know that end of the Bann well!—

3255. Portgleone is 9 miles from Termo!—Yes. 3255. Portgleone is 9 miles across the logis!—Yes. 3156 And nearly 20 miles across the logis!—Yes. 3137 And 30 miles down for Legan to Belliast!—

Yes 3128 Dod you say some of the baryes went through to Bellast !—Yes, but sometimes the storm in Lough Nearly prevents them These lighters have not tred to go down to Mr. Flots

314) Would there be say chance of getting any money from the farmore, if they would benefit by the Narapsinon or much, to carry out the inceptometers b-I don't thank so. We get rates from them. 3141. You would be add to ruses the roles so that you would have a briter chance of repaying the meney? —I don't think so, wir,

Mr. James Law, Farmer, Grange House, Toossebridge, Co. Antrim, representing farmers in Newtorry (Lower Bean) district, Exemined Chairman-continued

3542 You are a farmer, I understand?—Yes, and I represent some of my neighbours. I have here the leftowing memorial signed by the farmers living in the neighbourhood of Newforty.—"We, the understand neighborsheed of Newlerry (the land of which is not cuttake) for groung purposes, therefore is solidly agri-cultivall, are pinced at a very great dissolvantage through not having a measurable means of gelfding our firm preduce delivered. Though we have a wisterney at our doors, the Herre Band, we have no means of utilizing it. Seeing that a Committee has been appended to see that the waterney about the utilized

up to the same date, 21st September, it was 14,276

to the advantage and for the use of the public, we he made. We have moter lighters passing our farms daily, and all we require as that the old navigation be duly, and all we require as that the old navigation be paid in order and that two multi petitis be received, one one seek side of the Enna at Newlerry. We could thus load our laws recover at show pines and here it delivered directly to the market. Thus the rathers traffic would be diminished, and a great deal of time traffic would be diminished, and a great deal of time that the could be asset of the farmers have be cert of the could be an entirely specified and the could be according to the could be seen to the could be also considered to the could be an entirely and the could be also considered to the could be a seen to the could be a seen to the course from day to the rather than the could be a seen to the could be a course from day to the rather than the could be a seen to the could be a course from day to the rather than the could be a seen to the could be

3143. Have

3345. Have you say idea of the amount of torsay

any We have been sending up to possibly a thousand tons a year to different centres in various ways—some-times by small books on the Bann. There was a lady times by small books on the Esam. There was a may who put up a fixture some years ago in the river, but in sinter it was surrounded by water, when we wanted it most. I am some we send out up to a thousand tong

3144 How are you off for quays?—We have none at all I may say we experience some difficulties in getting lighters; there are so many companies that unlike then all the time.

3145 That is a matter that the Trustees can see to ! -If the river was put in proper order the farmers would get a lighter of their own.

3346. You would send the farm produce to Belfast?-(os 3147. You only want a wharf 1—Yes, one for each side. 3148. Would not the larmore et-speciate in building in wharf? It would not cost a great deal of money free Well, it would not. The Trustees could take land by swyme for it, and the farmers could not. We would

Well, it would not. The Trustees could to paying for it, and the farmers could not psying for it, and the tarriers count not we would find a difficulty there. Charrans II wish to think the witnesses for the information they have given us. (The Siffup then canchaled)

NINETEENTH PUBLIC SITTING: TUESDAY, 2474 SEPTEMBER, 1918. At the CITY HALL BULFAST At 4 p.m.

MEMNERS PRESENT: Mr Wilson-Fox, M.P., Chaumon Select |

Committee. Colonel John Gretton, M.P. Mr William Field, M.P.

Mr W. A. Linday, M.P. Mr. Walter Hodeen, M.P. Mr. P. J. Hannen.

Mr Philar MacNeury, Secretary.

SIF ARTHUR SHIRLEY BENN, M.P., IN THE CHAIR.

(Asimas.] I shall explain why our Sob-Oramit Chairman J shall explain why our Sole Committee is above On the 5th of last month the House of Occasions appointed a Select Committee for the par-rice of consoliting winst steps, if any, it is describble to take to develope and inquirer the internal facilities for imagener within it is United Kingdeen, on some offeditive supervisions and co-emissation, and to ensure that soft developements and improvements, absorbed by elegant and suitable to meet the national recurre-

are members, to invostigate and report upon facilities for transport offered by the ports and canalis of Ireland; to make suggestions for their equipment and development, and to vast such places as they may con-nider necessary for this purpose. We have vibried a stder necessary for this purpose. We have vision a normbin of parts, and we have now come to Belifant. I understand there are some representatives here from Sallycontle who with it make done studentis. I shall be glist to hear them. I would, however, salk these to kindly resembles the lumin of our Retreents.

war lucke out and nothing was then done. We wish

Statement by Mr. T. M. Gunne, Solimtor, representing tor, representing Antain County Council, Ballyceotle Bural District Council, and Ballyceotle Truders.

Mr. Green I appear for the Autum County Council my merchants of the town of Ballycestic, to bring before you the claims of the town and district for the show you the claims of this town and distinct for the provision of stillable harbour accommodation, in the intensity of the development of the phose. I should, the intensity of the development of the phose is though the control of the proper of the phose of the pro-cessor of the Press and Rethrest Crummittee of the Courty Council, who look the matther up and made amangements for this depositation to appear below-year. Certainties. He intended to be here, but there was no part with the proper of the proper of the pro-gress evidence harmally preplays ye will begue his unleade. I propose in a faw words to full year why we will be proposed to the proper of the pro-vidence harmally preplays year all begue his unleade. I propose in a faw words to full year why we will be present the proposed of the pro-vidence harmally preplays year. to examine three, or at the most, four witnesses who can be correlected by a number of others, but I do not think that they may be considered necessary. For and the County Council termed forces and most a pure on the Laind of Rathlitis, which is a short distance to the north of Ballyosolis, with the intertion that, as soon as their poor was completed, a harbear should be constructed at Ballyosolis; but, unfertunately, the

of possible to majoress on your Committee the reasons why the scheme that was formulated by the Depart. out without delay.

Charman I You quite understand that this is not a Government Committee. It is appointed by the Heuse of Comment, and all we can do is to make a Mr Green I I quite understand that. Ballycastle to structed at the meth-west end of the county and to the cast of Portrush and the Gamt's Causeway. To which is very rich in minerals within a distance of some four or five miles. There are large deposits of some four of the miller. There are, large deposits of out, men, which and visiable skep white can be leaved out, men, which and visiable skep white can be leaved to a strength of the skep which and the skep of out of the skep of the skep of the skep of the out of the skep of the public—quite be contraw. He skep of the skep of th and then goods have to be falson out of the Mindson games waysus to the bendingare waysus on the Mid-land line. There was an old instrum in Millson with the Millson in 1900 and there was a thipparent of coal and sand-stone. They were shapped to Dublin and other places and a larger trais was done, but that incharge action as and is no use whatever. The scheme that was my 28.

Statement by Mr. Green-continued.

suggested by the Ballycastle people and approved by the Department of Agriculture proposed to adopt the modern method of putting precs into the sea and makmoders are the defended of putting press into the sea and make of his before The estimated one of that was \$2,000. And the pressure of the control of the control of the control of \$2.00. The Clearly Council passed a resolution agreeing to contribute \$5.00. The Clearly Council passed a resolution agreeing to contribute the surface of the control of the control of the council of the control of the council of t scheme. I propose to examine Mr. Weedends, the regressiontaire of the Ballycands division on the Antain Gently Cornell since 1901, Mr. Hugh McAlleste, growth incerkain, Bullycastle, who will pow you com-ord dealing with it; Mr. Hinnier, representing the of dealing with it; Mr. Hinnier, representing the scatter offers, Bullycastle, who will let ly on about the massest reconstructed of the plate; and Mr. Slarge, a layer of agreeditant produce, who will let you know

Chairman. 3149 I understand, Mr Greer, that the Department of Agriculture have investigated this matter?-They

3120 I don't quite see, if they have got it in hand, what we can do? They say they cannot go on with it 5151 Why?-Because they have no funds. They applied to the Treasury. I will just read for you the following letter from the Department of Agriculture

to the secretary of the County Council -Department of Agriculture, etc. (Fisherie Brench), 3, Kildere Pisce, Dahlin, 5th January, 1918.

6311/14 F.B

SMI/JA FB

With interesse to previous correspondence on the subject of the imprevenent of the hirtour of Bully-cault. I have to senamit herewise, for the interest product, the contract the contract to the properties of the prope

Under the special circumstances, application for financial assistance has been made by the Department to the Development Commissioners, but without soccoss -I am, etc., etc.,

(Signed) T P Gua, Secretary.

The Secretary, Antron County Council, County Courthouse, Belfrat.

3158. Now we propose to back up the Department by giving restors why your Committee should report so the House of Commons that it would be descrable to mear the slight expenditure that would be necessary to make this inchour at Ballerastic. That is really

3153. You said, Mr. Greez, that the neighbourhood of Ballycatto is rich in minerals?—Yet.

3154 Are they being worked?—Coal is being 3154 Are they being worked—work is con-worked.
3155 You said that they brought in engages coul.
The cost is only being developed. It have one of the members of the followed being developed. There one of the members of the followed being the company kees who per move. It is a very good positivy of cond. The Mill-land Ruilway Company senie that they will take at work of it is can be supplied. The manager of the

linit Enlivery Company seals that they will take as much of it is can be supplied. The manager of the Collery Company will tell you the difficilities they have in connection with transport. We have no doubt that, if the collieries could be developed a little more, there

seer to animonously to stain it sy man became into a a narrow gauge and the goods would have to be transferred into a bread gauge.

3157 Could not a third rank be put down!—I don't know shout that I am not an argumen Ib has not been done in other places in the county. Since the war started there has been no coal brought by stup is heaught by Bellut and Colerans.

3158 Hew did they bring at before 1—By httle-boats. It was unboated into lighters and brought to the boatslip of Bellycestle. the contains in Deliversee

3150 Is there a safe anchorage theref.—Yes, I think so. It is a sandy bottom. I shall now call Mr. Woodside.

Mr B P. Wornener, Representative of the Ballycastle Division of the Antrew County Council, called in ; and Cherriers-outured.

3160 I understand, Mr Woodside, you have repre-ented Ballynastic on the Antrin County Council allow 2001. Yet allow the gas us some indirectation. 31th And yet may be to gas us some indirectation with the property of the since 1900 1—You be carried on if fishermen were assured of getting al-landing on mainland to misfut their fish. The skel-burning industry was forestely very profitable. Of late years it has falles into dears owing to low price and difficulty in getting kelp shapped locally. The price is now better, but the kelp has to be bestel shipped from a small private pire, situated about two nulses west of Charch Esq at the icot of the chiffs. All goods for the island are taken by small boat from Belly-castle. The darm protoce and cattle of this island are castle. The dawn produce and cattle of this minute are taken in small beats to Ballyousle for sile. There is no pent in the island, no doctor or chemist; the Bally-castle doctor attends what required, if he can crow it has one public-bease and two or three small shops.

La nerroal Gazes faires are no police or consignated. There is a Proceduant branch. Before Children for Processor Children for the policy of t went selves when Filling at anchor last winter during a strong. In fine weather a motor-bast makes the passage in one hour. The time delice by eating best depends on takes and wind. In rough weather the passage as impossible for small boats. A configurat the paisage is impossible for small boats. A conflux of the inities meets in the charmal forming a disappease some one called "Stoughn-sources," known is ascored to the charmal forming a disappease whose one called "Stoughn-sources," known is associated in the state of the charman stat Council for sale accommonation for boats at Casser-Bay and Ballyonside Pert. The island was visited many times by the representatives of the Department, to ascertain the best situation for a pier in Chards Bay. On the occasion of the last voyage of the Halo."

In normal times there are no pulses or consisuaci.

Mr. Woodstor.

" Helm" (the Deportment's slop) to the wland, with "High" (the Department's slip) to the sland, with the ree-predictor to board, a storn get up, before learing, and the skip had to rake for Londonderry lefter a landing could be effected on the sandland framework of the control of the sandland for the predictor another a scheme for the cristic-cox of a piec on the west soils of Chinch Bey, Rath-lus, and thus was fished about 1925. The county

94 September 1918.7

in, and this was naished about 1935. The county surveyor can give evidence as to cost, depth of water, acceptable, and no safety for boats to role. The calcumes to this small boat port soon either up, and among a dangerous break of this one at the cape and Midd What is the amount of shall the pre-separ-freen Ballyowskie !—There as a serchant from Bally-

title made to the heat pier on the case tode of Church Bay. When the belond set the nitry point on the veri-able of Church Bay, Rathia, was projected, it san the intention of the hepatheness and the County Use of no considered any assumption of the theory of the considered any assumption of the Department, to same of which dispersions were ranch by the conser-ous of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the conservation of the conservation of the conserva-tion of the the "here" steps of an ool naveour made in the middle of the eighteenth contray at Ballycastle by arosay given by the Irish Generament of the day to a Mr. Boyd at a cost of about £20,000. The remains of the east breakwater of this barbour me absolute, the was best-come has disapprosed—the stones it the off-per use bursels in the said, and the lardner is completely filled up. This showbor, in the doy-ce and the said of the said of the said of the periodic of the loweries, distillence, and have works here relabelated in Saftycoulds. In 1950, it appears to the relabelated in Saftycoulds in 1950, it appears to the said of the said in the said of the said of the time of the said hardner were closed and a new work to said the said hardner were closed and a new work to said the said in the said of the said of the time of the said in the said of the said of the constance. The country disrepared up consulings, etc. The Outsty Country large is proposed the Mading of the said o at high tide, there is no water for a motor-book to come slongstide, and no safety for boats to ride. The

from Easilycondie!—There is a percented from Raily-coatle present who will give you endeance on that— Mr. McAlmiser I don't know it myself. He will give you the figures All I give you is the work dame by the County Council and the extremat made by the Department of Agricalizare The people of Raidin My Hyon A. McAlosyns, General Merchant, Ballyzaeth, called in; and Examined

5165. You are a merchant reading in Ballycastle !-Yes

356 And you desire to give us some ordence regarding the made of the district "-Yes. Bellycardic
had, as far back as 1750, the franchistons had of a harbour. At this time there were only 62 inhabitants m the town, and invite 30 years the place had pros-pered to a great extent, so that there were 60 remain. growd for a gread extend, as that there were 60 messals, would by the residents, escapitic in energing out principally to Debbits. Colliseras were going on optimizately to Debbits. Colliseras were going on optimizately. Chas, sing and men needs were ashabited, and knewston were written in the continual principal of the continual of the contin McGaldowney built a pier and purchased a steamer of at long own a behave either Amone on youth ago, Mr. 1975 for all those own the management of the part for him and continued to manage, the continued of t

Island bring all their produce in small bosts to Ballythe work, and that it was the intention to complete it by holding a nor se Ballyonette. There was some the piece decayed, and for 100 years nothing was dear in the way of shipping, except by harges from along anchored in the bey. If the old harbour were cleared

Charmen continued

of main and the dines of the old given usel, a very effective threfore could be made.

50.5 I wally dea't think this comes within our re-ference. You say to and a surrow gauge estimate, You don't generally within these conjugate with the stated that they think these conjugate with the stated that they think these conjugate mer than it our that the state of the state mend. I don't think that we can go into this macro-My Green. If you consider the case on its merits surely it would be in its favour if it turned out his wordy it would be in its favour if it turned out his

Charmon | You are a lawyer, Mr. Greer. Are you prepared to call Ballycastle a pert? and I think it will satisfy you (Asirmon | Our reference limits us to facilities in Mr Green'l I am prepared to give evidence that merchants of Hellycartle get ships to come from Scot-land and England which they have unleaded into

(Naiveen.) I am alraul that it does not come within our reference. We will be very glad to hear evidence

Cheirman-continued

directors, when the desire of the company seemed to direction, when the detere of the company second to be to take over the mirrobastic time or well as the tende of cargines, with the result that local merchanic contracts with adopting the contracts with adopting a take year. In the contracts with adopting a take year, but taking in a Korromova with adopting a take year, but taking in a Korromova withing to be temporally as the company withing to become cost important themselves, the harbor state were made, from tores to trace, until and than the statement was relained to the Bullycault assenbants allogsther. Mr. Koffitziny, surshir merchant allogsther. Mr. Koffitziny, surshir merchant and the contract of the sound in the contract of the sound in the surshing and the contract of the sound in the surshing and the contract of the sound in the surshing and the contract of the surshing and the sursh agend the money and no cone to have control over the works when finished but the local stupping company. (See their letter to Mr Greer, Solicitor to County

Council, a copy of which I can put in.) We brought the matter under the notice of Sir T. W. Russell, and saked him to send someone to misryny the people other than the shipping company; this he did, and we were premised hardour Seclitics, bits the war inter-wench before anything could be done. A large leads could be done whish was never touched to any attent-that as, in the shipping of fairs produce. The local cases has the control of Islay, and in August each year two or three three-and seconds of dried fish were disposed of. The boats come a steamer calls and takes them to other markets, which

on the cost and Portrush on the west for Behing on the one and Portrain on the son of Larne irradius etc., to ron to when in this channel. Larne being about 40 miles and Portrash about 30 miles

3167 I understand, Mr. McAlaster, that for 18 years you we're menaget of the pier which is owned by Mr. McGifdowney, a private gentleman in Ballycastle? 3163. Well you tell the Organities what the avera and, well you con me tommittee where the average traffic was per years—I took out statistics toy four years, and it increased from 10,000 to 15,000.

Chaleman 3109 Your exports consisted of mad, gravel, lime-

Chairman-continued 5170 What about cattle?-There were no facilities for shipping callle at all. The part is so constructed that you could not send cattle. It is about 16 deat 3171. What became of the cattle?-They had to go

3172 Sent by the narrow gauge?-You All Sell of we marrier gauget—the any person, who bought them in Ballyasute had to state than by the narrow gauge if they wanted to ship them to the English or Societ ports, and they shapped them from Ballist or Oberstan. These are no facilities in Bellist or Ocionico. These are no Isolilless for elaptic entire at the pier.

5073 I thank we include at Bellyoutla that there the account of the Isolilless at Bellyoutla that there could be seen that the Isolilless at Bellyoutla that the countries has the insider of increase improvement Agracultage has the melter of increase improvement at hand. We will bring the native before our Music Committee Isolilless and private comed gone at Bally-countries and language that the countries of the property of countries and language the countries of the countries of the profile said language that the countries of the countries of the profile said language that the countries of the countries of the countries of the profile of the countries of the countrie

the war started Mr. Green! Would you allow me to give evidence of one unkness as to the mineral resources of the district? Charmen ! We cannot deal with them nuder our

3174 Thme was something said about the difficulty, Mr. McAluster, of getting live stock from Bathlin!

Yes. The live stock from Bathlin has to come to Bally. \$175 The live stock have to go to Colemano !- Any-

storg that is sold in the distinct for hipponess has called in go to Colombia et a Called handingspool the live stork modern of the whole area—Fen, because it we had bestlime for shopping five stock at Bally-cautio it wends take no area of 30 miles or nam-cautio it wends take no area of 30 miles or nam-cautio it wends take no area of 30 miles or nam-cautio it wends take no area of 30 miles or nam-cautio it wends take no area of 30 miles or nam-caution of the colombia of the form of the form of theopen, and about 15 from Liverpool. The meants shirping ports for cettle from 3 hilyestelle as Lurse on the con arise and Octavism on the outlets took industry of Hallynessie success or made observant or branaporti—Yes, E is a most important matter. Observant I II thus are any museuals being weeken in the district we would like to hear about them Mr. Green [1] will ask Mr. Heelie, who is connected

Mr. Jone Hecure (Mesure, Hackie, Aifon and Kerr). Ballycoolie Collegy Company, called in ; and

3178. You are a NPR You are a member of the firm of Masses. Heckse, Aiton and Korr!—I am managing director. 3379. When was the company fermed?—In May, 1317. When you get a good some of coal 3—Yes. We are the proprietors of the Ballycaselle minerals, which extend for practically 10,000 arree. We have only been developing there since we started in May, 1327. We marrow-gauge railway and, on the seaboard, there is a very suitable place for constructing a harboar. The old harbour, which was built in 1736 by the previous off harbour, which was healt in 1756 by the persists, or and sweats could, in my options, he reconstructed, he reconstructed has been as the same of t

4,000 acres, which has been proved to contain coal, to be opened. We peopase to deselog the colliery as the ast it is expalled of herny developed. We have had larger schemes in view, but the west of proper trans-port inclines really is the stempling block on other. We have supplied 110 tone to the Northern Stirre coas . We have supposed now one of the relation of Counties Committee, and they are well satisfied with rie quality. The engineer described it as vary satisfactory, and Mr. Maleolm is quite prepared to verify Contribe Committee, and they are well assumed, as quality. The auginess described it as vary satisfactory, and Mr. Makotin is quite prepared to verify different boltzer and the state of t stretch to the currying capacity of the narrow-gauge railway, which is menapals of dealing with very moch more teaffe than it has at precent. Lately it was con-posed in dealing with the algoridering posted of the distorts, we much so that for live days on end we could not go was a summary of the control of the con-ments. Our coals were dumped down on the planform wing, for the weapon to survive. Those are conditions and no me when it reached its destination.

3181 How many tons do you preduce!—Just now which would not encourage any company to go on unless they had sufficient equilal to make a new for therpreives or to build a railway and to make it a broad gauge. We have three workable seems of coal. another section of our colliery, and we have still over broad gauge. We have three workstae seams of coast. We have first a seam of cannel coal, which by makens

gros gas, tar, etc. 44.17 per cent; sulphur; 93; fixed carbon, 54.00; and ash, 5.90. This coal has been taken say by Sur Boverton Redwood, the great mineral al carers, who states that it is of exceptional scaling. takes up by the partition converse, or against grain to a compared to that had not been considered updates, it is used to be a compared to the converse the converse to the converse the converse

transpart. We were not prepared to make a Lios of milesty or even a temporary line to connect with the parrow gauge, and then the possibilities of the narrow ranse were not equal to possibility out a surprive of 80 tons

Ballycardie to Bed-last than it would cost to take oold here Ayrabire to New York. That is notucally the pastlong we are in. Of this cannel cost, we are esti-nated to have our 13,000,000 tons. "Hawks Nost" onl seam in our needed seem of workship cost. We have got 15,147,000 tons oradiship. It is a storm and Mr. Keating

3362 Who estimated the 15,000,000 tens!—Mr. Elder, a runing engineer from Scotland, who was em-played on bohalf of the proceeders of a scheme, sup-ported by Sur Bayeston Reiswood, in 1933, with a canntal of £1,000,000 Sir Borerton Redwood is head of the Petroleum Research Committee, Ministry of Munitary. Then these is the third seem of workship. Monations Then there as the third seem of workship coal—our mais feel seam, nearly 20 million tons are available, making a total of 48,000,000 tons visible in sight. This is in an area of 5,600 seess out of our available, Discarge as low-sight. Thus is in an area of 5,000 series out of our 10,000 series. 3,005. There is no doubt about it that you have get plenty of coal?—Yes.

Chairman. 3284 Suposing you had a harbour there, how would you get the coal down to it i-The County Council are

3135. You would do that !- Yes. 3135 What use ressel would you expect to get !-'500 tens

3587. H you got the coal to the harbour you would get it direct into a 500-ton vessel?—Yes 3538. You would must a pter with sufficient depth of unior for that voxel?—Yes, there are any associat of sites suitable along our colliery line.

Mr. Hudsen.

3188. With regard to the three sesses of coal, have you say house coal!—Yes 3000. You mention two kinds—one of causel and one NISI And your steam coal has been tested by the Northern Dougles Committee |-- Yes.

NORTH AND STREET OF STREET one and proved very satisfactory s-Les 3165. Then you have snother rease—as that house soilt—Yee; the Northern Counties Committee are sing it for steam purposes. It is both steam and a What droth?-Our total depth is about 100 ft.

varied | 3185 You are satisfied that the narrow-gauge zail-1126 Or even present-day requirements 1-No, sup-sening the narrow-gauge effected fazilities to deal with the cost, it means that the coal would have to be Mr. Hudson-continued.

handled again and transshoped on to the broad page. That mean a great expense to making the cell

3187 Does not your explanation suggest relation

comoding old—this scene of your could are soft—Yes,
there is a good portion of it self:

3185. Ni. 19 Hoos-Fax. I Are the estimates you have

over practically made on here heles?—Yes, 3499. How much coal have you in night i—48,000,000 one. What we have in sight at the present moneys winch is 4 ft. (lick: 3000. What is your expited?—We have spent £3,000 at present. Our original capital was £0,000, and we

are spending money beyond our capital
are spending money beyond our capital
3201. So you are not in a postum to carry out any
extra work without receiving more capital? No, and extra work without receiving more capital? No, and the great difficulty is the want of these proper facili-ties. The material is there. The silica has been stated by the experts from the Ministey of Munistens

to be the best in Great Britain; yet they can take it cheaper from Norway. Mr Hausen 3866 This harbour could be useful for general pur-

poses of commetce as well as for your coal, if con-structed b-Yes. 3803 Do you regard this Ballycastle Calliery of yours as of national importance?—Yes 3804 Or as it a purely local matter!—All coal production at the present mornant is of national

2005. Do you, as a bruness man engaged in develop-ing coal manes, think that the possibilities of Bally-castle would warrant a public expenditure on this

Mr. Lindson. 3206 What proportion of your coal do you estimate

3337. I suppose you get more for the house coal than 2307. I suppose you get more for the beause coal than for the states coal 1—Yes a c

broad gauge. I suggest to you that you should think of the 3210 I suggest to you that you should think of the desirability of milway communication as well as a horbour!—Boudedly. If we had the same facilities in Ballycostile as what the coal-owners have in Section

and in England, both in regard to railways and sen-treasmort, our colliers would not have been signified pands would have seen presentantly weren our. 2311. You should take advantage of your geographi-cal posttion?—You. I have no doubt that the Midhard Railway, if they were assisted that great developments would take place, might extend the broad gauge 2312. The Midhard Railway do not own the line from Ballycastle to Ballymoney?—I think you might say

Mr. Philip.

3213. Is it year opinion that the want of Incilities on the state of th 3215. How many men have you employed 5-Alto-

2016. Only 30 men 1—Yes 2016. Only 30 men 1—Yes 2016. Only 30 men 1—Yes 2017. Do you consider that this would be a paying peoposition if properly developed 1—Yes. If have sunk my last pecuny in 2, and 1 think that is the best seet of any near's 518th in a concern.

of any read's 197th in a concern.

3325. It is were approx that, if these iscillities were persided, estimate capital would be forthcoming to enable you to enter on these collieries uncausatily 7—10 belonholdly. By may intreed you to know that in 1705, when Ello the present times three was a saterity of coal both in Bellist and Dubbin, the Iruh. House of coal both in Bellist and Dubbin, the Iruh. House of

94 September 1918 I Mr. HECKIE

Mr. Field-continued Commons subsidised the Bellycastle coalitelds,

XX19. You look upon this as a national proposition?

Mr. Kentino. 5820. The volume of cannol coal is very great up there!—Yes.

3331. Have you any idea of the proportion of mineral off that could be extracted from cannel coal 1. We con-sider we have between 40 and 50 gallons a too, from an analysis which was made for us by Tatlock and Theregoes, analytical charmins, Glasgow, for our own purposes. Ser Boverton Redwood, some five or experience was interested in this property, and he recommended to the Lordon Syndicate that this property saw worth exploiting. They were footing a

million of money, and would have gone through only 3222 What year was that \$-1915-14 3223. You are aware, of course, that the Govern-ment are making very great efforts to get native mastal off in all parts of the Empire!—Well, we see a good deal in the papers as to their succety about that 3224. And you assert here in Ballycastle that you can got 40 or 50 pallons a ton!—Yes. 2025 Do you think it would require much capital to get the cannel coal out immediately?—We have one

3225. How many tone per week could you get out !-Within six months we could put out at least 1,000 tone

of cannel coal a wrek.

3227 With an average of 40 gallone of mineral oil
from each ton 3—Tes 3228. You have stated in your evidence that you would be presented to brill a railway yourself if the

Mr. Kenting-continued. at were improved !-- I don't think we could undertake that unless we finited into a bigger concorn.
3239 You are of opinion that there would be no

[Continued.

difficulty in getting enough of capital to develop the coal mines if the proper transport inclities were avail-able !-- That is so able !—That is so 3530. And it would follow if it was a paying concern you would build the rathway yourself?—Yes, if we had a port to make a rationar to, 3231 With recard to the area stone—that is area

2033 What is the value of that t—The one is of a very pure quality, giving III per cent. persaids of iron. That proves that the remotions is a continuousl matter. Reserve Merry and Currangham made the coly serious attempt to work the ironatone, to supply their blast larmace in Sectland. They worked that colliery between 1864 and 1870. They stopped work when their lease expired. They were unable to get if

when their least expired. Endy waste union renewed on the original terms.

2235 You think that by creating facilities at the port. that you would get more cannol coal for mineral of and also irresience which sa very measurery for the

N334 Have you got an estimate in your own mind as to what it will cost to create these facilities at the port!—It would all depend on the position that was chosen for the port.

2236 Would you be willing to give that matter your
consideration and get an estimate!—I would like you
consideration and get an estimate!—I would like you consideration and get an estimated—I would like you to remember that to make a collecty post would be eary much cheaper than to make a port for general pur-poses, but it be collery port would not be so convenient for the accommodation of the general public. Chairman I we will proper to our Mein Committee

about this matter.

Mr Greer I Will you hear Mr Hunter?

Chairman I Yes

Charmon. \$235 You wish to give us some evidence, Mi Hunter*-Yes, Su Arthur. I would like to say that if there were harbony accommodation it would develop by the railway alone, and we have evidence to show that. There has been a great development in the agrithat. There has been a great development in the agreet of section. We have evidence that last year about 50 periods. We have evidence that last year about 500 could easily be devabled it there had been proper faculties. But I particularly with to bring before year threatment. The section of the proper faculties with the proper faculties. But I particularly with to bring before year chartening true for the kell of hardern accounsistance. I am well sequented with the minemal research of the fairtnet. The permapal numerical sections of the faculties of the permapal numerical sections of the fairtnet. The permapal numerical sections of the fairtnets of the permapal numerical sections of the fairtnets of the permapal numerical sections of the fairtnets. resources of the district. The principal numeric area is statute to the east of Ballyoustle. It extends from Ballyoustle to Farr Head, a distance of about fire unless along the nec count, and from the say count, in a southerly direction, to a dustrace of three nulles inland. It contents an area of over 8,000 sorre. Whether materia are to be found of over 8,000 acres. Whether munerals are to be found on the extreme southern or inland boundary I do not know. Several experts have disagreed about this, and boring only can settle the point. Mr. B. Rider, M.E., M.I.M.E., estimates this 5,600 across of the field con-tains only A. whundons drive cuts the field in two. the runs in an emission direction from the field in two.

It runs in an emissive direction from the Doors (half
is mile cost of Reliveratio) to Fair Head. It has been seeth of this dyke. That theory has been dismoved by tions. One of those, within a mile of the Fair Head or eastern boundary, found carnel coal at a depth o or estates boundary, found cannel coal at a depth of 200 8, while the other, at the extreme western boundary, proved a bounded same and a small cannel assume as a depth of sheet 30 ft. Easiet the testal area coal flutuations and cannel), area (principally Mack health, silver, gamater, and skey have been found Three are four known seams of easie—"Howk Next". "Meen" "Ween" and commal. Influences at its fee. "Mam," "Wee," and count! Anthracite, it is be-lieved, is to be found under Fair Head. The prological

Mr ARTRUA HUNTIN, Managing Clerk of the Estate Office, Ballyrastle, called in ; and Examined. Chairman-continued month this year. The full report is not yet available month this year. The num reports a few obtained on application to the Breezer of the Golfoppial Surrey of Ireland. It has been computed by the Goloppial Surveyor that about 130 acres of mann cost as unmaned in part of the area morth of the whimstene dyke. At moderate computation there would be about 600,000 tons available, estimated on the harm of a 3 % 6 in seem, and exchange of whetever reserves the 5.9. O M. seem, and continue of whatever reserves the field south of the geant gav or whantone drike may contain. These might, indeed, he over 1,000,000 tons, but because are necessary to prove the full extent of cold in this northern area. A mile and a half east of two in this notions area. A mile and a half east of Bellycasible a scan of the miss coal is bring weeked and developed at the moment by Meetre Hockie, Alten and Kerr. The sam as 6 ft thick and is a good home-hold coal. The amones wastle content is about held coal. The average weekly curper is about 60 tens, and the price obtained is £2 16s, per ten at the pit needs. The market is local, except for "ness," which are sold to the Midland Rulewy One-pany at Bellast. I understand a further development of the cutypt of coal is in contemplators. Means Hockie, Aiton and Kerr are employing Masses, Kyle. of Glasgow, to hope the area adjacent to their mine by a hand drill, and homehold coal has been found, at colput is under that of Mesars, Hockto, Ailon and colpus as uncolpus it is also in the second Kerr's rame but it is also in the seconds area out. In the Ballycartle muccoults area recent. In the Ballycartle minorals area, there are large deposits of cannel coal, for which there is no local market. Sur Borecton Redwood, in 1934, esti-mated caunel reserves at 10,000,000 tors, whilst Premainté cannel reserves et 50,000,000 lors, which Prenouv Hull, in the axane vera; commèrced 45,000,000 lors a fair estimate. (Fuér copy carinate of their experts now handed is,) I have that many impairies have been received by the company about the cannel could be a fair to be

cularly in manufacturing towns. To export the con-

Choirman-continued by rad from Ballyousile necessitates too much hand-Fig. In the first phose, it would have to be leasted at Ballycastic, then re-looked free; narrow-gauge truetas to the bread pauge at Ballymoury, and again re-loaded at Ballists of Colemnia Bucks. Irea: Many searm of incurtons outcopy in Ocksey Boy (roughly, about three miles from Ballycastle). How was mined here in 1854 by Besters. Marry and Counting how as approach. There is an zero field of the private than the MINIMERS AT BEOSOMIC PRICES BY SHE PARAMILITY WI those deposits bring worked at that date (EMS) by Mosre Hecken, Asten and Kerr and the Errich Siben and Minnesda Company. Negotiations were then in progress at that date, but did not noncealine, and transport Scattlinea were beggly a desping Laten as the declinate of the comparise to abstaton the project. In the past the silica amplitus have been largely imported from Norway. That Norwegina supplies could be compated with, if the Baliyeastic solice could be expected to Great Bettinh by sea, is the expected to Great Bettinh by sea, is the expressed conicion of Mr. Edder, M. N. M.L.M. E. A. compared to the Baliyeastic scheme in the very consider of Y. S. O. Great). Also, in the very in a firm quite better the property of the contract of da. Ballycastle silies in one value of a firm quite F & O, from). At the measant there is a firm quite prepared to take the tillen if transport is ultilities by rea were available. There is a deposit of gaulities at Ballyrey (three miles from Ballycastle). I do not

Chairman.

May. Can you tell the Committee the amount of pointons experied last year from yours locality f-Mr. Hanson

3238 For export?-Over the railway; and I believe there would be 20,000 tens expected from the neigh-bourhood if they could be hardled. We had great difficulties less year over the narrow-gauge railway.

(Beirson 3239 Do you know how many cottle were experted?

3040. Could you put in a statement showing the mount of stuff experted and imported into Ballycastle

Mr. Greer, Selicitor.] It is rather difficult to got that. Mr. Sharpe only represents one firm. Without? We could have sent out far more pointees if we had facilities. The sarrow-gauge railway is not

3360°. Do you ship snything, Mr. Sharpe, besides the 5,000 tons of polators !- Some oats.

Mr. Pich. 3041. Where do these potatous go to 1-I sug they went for the Array, and a great many of them across to England and Scotland. 3042. You are feeding the Army from Ballycards !-

Colorsel Gretten 3043. Is there anyone also dealing in potators at

Mr D J. Owns, Secretary, Beliest Harbour Commissioners, called in ; and Examined 3054 You are Secretary of the Belfast Harbour

NESS And you have been good enough to put in a stalement I—Yes. This is the stalement i— * Not handed in 0.178

know whether it is in economic quantities or not. There are pool clays (fireday and ordinary) to be ob-tained at Ballywy. I have seen thousands of good samples of building brick, also samples of glazed never and drain popes. As Ballintoy (seven raties disopen if the muses, entermose scala reason election aren at present these are 700 or 600 from in stock which would have been sold if there had been any harbour seconsociation. There are hugo reserves of healt, but its exportation for road-mailing, building and square saits has been stopped since the war began and all work postponed. Before the war the developwhen the weather was favourable. Often and often three and four attempts to load were made on different days, which of course added exten cost to the working to provide at Ballyceaus, an absorber to provide the mercial imports and exports of the eccatery, tapped by the Billyceaus, 16 valles distant inland, would be carried by scaberne transport.

busies developing the growing tearist traffic for in miles cut of Eullycastle, Ballycastle itself, and at least 19 miles west of Eullycastle. Mr. ANDERW SMARTS, Produce Expenser, Ballycastle, called in; and Examined Obleral Greifen-prostituted

3044. Others besides yourself!-Yes, I am only SSNs. Collect beades younged to let a said only buying for sone firm there. 2005. The quantity you give—3,000 sons—is not the total quantity 5—No. We see only starting a few years. Last year was the first year that we had facili-

5346. Can you make any estimate of the total quan-ty of motates sent from Bullycaths *-At present I

Mr. Hudson

3347. You said there was some difficulty with regard to petting wagons from the Railway Company?—Yes
3000. Those are option rules had down in region to applications for railway wagons—you have to give 3249 How much notice have you got to give at Rellycastle to the Rullson Company according to the

nameral rule !-- Sometimes you carnot get wagons for dava. 3000. I know that is your complaint, but what is the rule with regard to giving notice when you require regard.—Three or four days toolice. 3221. When you are not petting the suppose in accord-ance with your request, what riphy do you get from the Ratlews Company.—That they are not able to take

the Chings.

3252 You don't give use a definite answer on to what notice you have to give—is it 24 hours or is it two days?
—Superince mare and sometimes less

3255. There is a general rule laid down !-- I don't know of any We Green, Soliciter] Is that all you wish to hear Okoirmon | Yes, Mr. Greer. | We are much chilged to you for hearing

BELPAST HARBOUR AUTHORITY'S JURISDIC-

TION, DUTIES AND RESPONSIBILITIES. The Belfast Harbour is under the purisdiction of the

ACCOMMODATION PROVIDED BY THE body, which was constituted by the Balfast Harbour Act, 1947, and which took the place of an older body. The duties and responsibilities of the Commissioner Under their statutory powers the C bree, from time to time, constructed works to provide accommodation for the trade of the port. The follow-

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The drites and responsements to the commission are defined by Statistics passed at various times from 1987 to the present year, and are rimiter to those develving upon other public Harbour and Dock Authorities in the United Kingdom, having regard to local accommodation for the trade of the port. The follow-ing tables give particulars of the principal docks, quay, etc. In addition, consolerable facilities have been provided in the way of readways, mallway lines, cranes. OHAVE WHAPPPO A

		402	.1.0)	WILL	LEVE	10, 100.		
Opened.	Nam			De	Lineal Quayage			
				0. H. W.	0, L W.	Fret.		
					- 1	ft. in.	ft. in.	
1848 1849	Canal Quay -					8 8	0.8	900 3002
1849	Donegal Quay .	- 6				24 3 21 3 25 9	15 9	3692
1874	Albert Quay -		-			24 3	15 9	1907
1877	Queen's Quay -					33 9	16 3	2157
	Musgrave Chr	MIDS	Qns	75-				
1902	Nos. 1 & B .		- 2	٠.	- 1	32 3	23 9	200
1904 1889	No. 3				1	30 3	25 9	800
1889	Alexandra Wheef					32 3 34 3 34 3 34 3 38 6 30 5	25 9 25 9 25 9 15 9 30 0	800 400 943 670 754
1839			- 6	- 6		94 V	15 9	940
1895	Victoria Wharf			- 1		38 6	70 0	070
1900	Alexandra Jetty					30 7	31 8	104

	1905	Thomps	xi Wharf		-	- 1	80 6	38 0	600
				D	OCK	S AND B	ASINS		
Opezad.		Yums.					Depth below Low Water	Water Area	Lineal Quayage.
1951 1997 1872 1872 1872	Abo Dufi Stee	endon Dock rosen Basin serin Dock stor Dock- water Basin	: :			feet. 47½ 00 180 160	feet. 9 11 15 116	10 8 1	7. Soot. 21 90% 12 1925 12 1099 99 1699 2 671

York Branch Dock itting-out Barin, Co. Down -" Non-Vidal, 85 ft, at O.H.W Total Lineal Quayage, 25,762 GRAVING DOCKS.

			White Entre		Level of Still above Datum.	Depth of Dock from Coping to Floor.		Breadth of Floor,		Leogth of Floor.	
	1 2	:	fs. 97 33	in 2 2	ft in. 1 9 Harb. Datum. Below Datum.	ft. 34 15	in. 9 5	ft. 37 34	in. 6 0	ft. 245 267	in. 0 0
Hamilton - Alexandra - Thompson -	1	:	80 80	0	5 7 36 0 24 6		9 0	50 50 100	0	431 930 850	0 0

* Longth of caused be placed against outer face queins = 886 fs. 75 in. HARBOUR DATUM Level of No. 2 Clarendon Graving Dock Still, and 1 ft. 82 ma below average low water level. Lifting Capacity 120 5005

ORDNANCE DATUM. 25 ft. 5 ms. below Harbour Datum AREA OF HARBOUR (APPROXIMATELY) Co. Antries. Co. Down. 830 . 1,983 , 1 Manting Shoers

Total - 2118 arres Total 49 The total amount spent by the Commissioners on capital works is, in round figures, £2,000,000

Chairman-contacted

By their Acts of Parliament, the Commusioners are authorised to burrow money by the issue of Redsem-able Compolifished Stock upon the recurity of the thic Consolifated Stock upon the security of the undertaking, lands, harbour, and other procures of the undertaking, lands, harbour, and other the Commissioners. The Stock coperty resent in the Commissioners. The Stock sund up to the present has been made redeemable in The Commissioners are obliged to maintain Syeds. The Commissions are unique, or annexes, article fand, into which, out of the harbour provence, each year, such payments are made as, with interest at 3 per cent, will accumulate a stitlement securit at the end of 60 years to pay off the becrowed sensorial to Commissioners also have the power to its form. sisking fund moneys to purchase in the open market been levenly availed of, thus reducing the indebtodness of the Commissioners The amount horsewed by the Commissioners and the

#1863306 9 2

\$1,527,465 10

£4,395,329 10 S 1,855,706 2 2

- £192,805

amount extinguished by the sinking fund are as Total amount of borrowing

powers exercised Stock extinguished by Stuking Fand Leans repeal, &c.

form of Canachi Stock LORES HOW OURSELE

The actual boycowing powers of the Commissioners - relique sa heate Total amount authorised to

Balance representing unex hansted berrowing powers £2,540,025 8 0

1914 -· £180,874

180,874 | 1916 • 190,502 | 1917 • 205,003 1915 -TRADE OF PORT. The trule of the port may be divided into the follow-

Cross-Channel ross Channel and Consting - Accommodated mostly at the Donogal Quay. Coal-Mostly using the Queen's and Athert Quays.

Foreign Trade-Mostly mittg the York, Dafferin Shiphrilding-For which the numerous fitting-out

wharver, etc., are provided. NUMBER AND TONNAGE OF VESSELS USING THE POET.

Cross-Champel and Co-8.561 vossels S

1917. Cross-Channal and Consting

2.785 vessels 1.963,537 tons GOODS IMPORTED AND EXPORTED

797,813 tons Imported -

Total 0.178

1917. 9.386.135 tons Imported

GENERAL OPSERVATIONS. The Belfast Harbour Commensusors have nown had

1864, subject to repayment at the rate of 4g per cent per annua by way of interest and return of capital This was in due course fully repaid. The Commis steness had no difficulty, up to a paint, in all moneys which they required to spend in Parliament remisting the finance stepulated

per cent, and that each mene was to bear the same rate of interest. From the year 1906 the state of the money market has been such that if his been imposthic to borrow morney at 34 per cent. interest, even with the price of issue at 66, that only representing Latterly, of overse, on account of war conditions, and

one themselves the state of the season of the periodic the decoration print 5 of season intens. Season of the seas

in the way of does on the visits and goods as would, defray the expenses of maintaining and managing the part, including interest on capital mency borrowed and the requestle unking fund payments. With proper management them does not seem to be any The experience of Belfart as all in favour of this view, as would probably be that of most other large publicly managed harbour undertakings. With a public trast managed harbour undertakings. With a poone tract there is no weak to be made, and any surefus revelue remaking after payment of all expenses is seen towards the development of the port or towards the reduction of the date. The tendancy is to reduce the

range of ancher, and an orange an unifor consolition.

Obviously, a post which managed by means of cottain and to keep its does less might direct traffic there and distant the natural for of traff. This would be the seem to be the duty of the general sax pover of the Kingdom to pay the direct cost of provising Port accessredation and facilities. That cost is properly

payable by the vessels and goods in the form of Port Dos. This does not create any artificial harriers and consequently tends will flow through the most suitable changed, so those Ports bort steasted, having regard chamics, so true Ferm out whiteen mind separate to their geographical position and the population, will develop. The cost of heading and treasport will fall on the greeds, and be eventually gaid by the consumer. It is, however, quite conceivable that State funds might be advantagement employed in the construction. could not otherwise exist. It might also be necessary for the Government, in the national interest, to pro-

24 September 1918]

Chairman-omtimed.

in the "Report of the Departmental Committee appennied by the Board of Trode to consider the pention of the simpsing and shipbinkling industries after the way," express very clearly the reast which the Bellest Etheorer Commensioners entertum, viz.— 1. Forts should be provided with adoquate railway and road Sodition at the quays.

2 The principal parts should be provided with modern appliances and with labour-saving michingry of all kinds to the fallest extent necessary. These has been a great defiance of travelling cranes, elevators, and the like.

elevoters, and the lifes.

3. There should be supple symmetries amounted attention 2. There is a supplementary of the life of

supports, so the an ealery lims are emounted, the statle of teasories, consistent with this limit artiface rythera—the fixed Nuclean of belond, the Million, of the statle of the statle of the statle of the statle opposite fare of nor any part of Friends to be lasted and the statle of the statle of the statle of the statle deal at which a slop may be borrios. The nort a deal to the formular of the Lagan nationals, which also the formular of the Lagan nationals, which also the formular of the Lagan nationals, which the squantly of podes using this system; is not great, and thus formular on support of the case almost and the signal of the statle of the statle of the maintains and the statle of th

395. Yes intenses here the you here got very field edition. So the second of the control of the

2324 You was besided in the assemble of liberary to would per 3—No, up this year or seek landed to be would per 3—No, up to the year or seek landed to the rate of market to the case of the early of the case of subserved to the case of subserved to the case of the case o

2000. All three great improvements have been virtually done by Bellius itself!—They have been entirely done by Bellius; itself!—They have been entirely done by Bellius; with the exception of a small loss of £100,000, got many years ago from the Board of £100,000, but have on interest as if we berrowed from the public.

Mr. Hunnes.

3861 The development of the Port of Belfast during its long and successful hastory has been carried out on the prantiple of sell-halp!—Yes.

Mr. Henros—continued

30%2. No money has been advanced by the State
except their cone 2500,000 from the Board of Werks !—
I think that on one occasion 80 or 250 years ago the
lambour distinguist or see 2500,000 from the Board
lambour distinguist or see 2500,000 from the Board
down, and the public of Bolisas impossed the matter
down, and the public of Bolisas impossed without
he sighteen difficulty.

the slightest difficulty.

3863 Can you put in some statement* to the ounmittee showing the efficiency with which the Port of Beliest is at present being worked?—Yes.

Mr. Wilso-Pox.
3954 I notice that the Communications have over 8

miles of rails of terminage connected with the three railway systems — Yes 300. Is all the railway development curried on by the Commissioners — We merely provide the railway lines. We provide all the facilities. 250. Tor don't have to make any financial armage. 2001. We have been supported by the railway company — No. we charge a succession of the railway company — No. we charge a

situs was the running company — No. Others or bill of so much a ton on the goods which pass or these lines 3267. You give, so to speak, running powers !— You. Obligant Gretton.

Object Gettlee.

No. 2009 Toe have stated in the evidence you handed in that "it is consolved as a general principle occluding the property of the property of

STOP. What way is the reversion of the port derivoid—The principle or which the Harbour Commissioner have always proceeded in the calabour as for as you have always proceeded in the calabour as for as you have good and results and the between the reverse 267L. Has that always been the policy of the Exchange principle, but I don't any that the Campan as good and results are the calabour as the calabour would be than 1940 yet we have good as the calabour as th

that has become drawn percey, we have go our conditions, when we have been runned to done on good more than those on versals. Save Subject to variations according to the according to the capabilities of the york and according to the capabilities of either shipping or goods to bear that increase Processly. Save March 2007. Subject to variations of the provided processing to the capabilities of either shipping or goods to bear that increase Processly. Save 3 and 3 a

harbour without any injunies to the shipping people or the morthania?—You have expressed it quite corecily.

3874. This policy has resulted in making your part one of the most successful!—You.

Mr. Lindsey.

Not. Leaving.

Mill. At the beginning of year collector, you may take Billett Indiana. The Billett Bil

any State assistances any State assistance that the harbour 3272. You have already nonthenned that the harbour recover recoved any financial institutes except this reads in 1994—Yes. 2272. That was subject to repayment as the rate of 45 per cant per samum by way of inherest and return of expellation.

Not furnished.

My Owen My Lindsy-continued

Mr. Lindsty-continued 3280. How much was interest out of the 44 per cent. ?

288. Her much was inherent out of the 4½ per cent. 3— -5½ per cent, and the rest represented as actuarial support, which would return the expital in 40 years. 2833. The Government get a fair return by gring the money at 5½ per cent.—Lee. 2832. Year would hardly say that, the Government was sking in the expundy of a fairy galmether!—

3865. That was the only lean that the present Harhour Commissioners over get sense they were formed !-

Yes, but the rid body obtained a small foan of \$25,000, for which the Government charged fi per cent, interest.

3890. May I ask if you will put in the yearly accounts and a schedule of port charges !- I will put

Mr. H. M. Pollock, J.P., Chairman, Belfast Harbour. Commissioners, called in; and Examined

2005. You are charmon of the Beltrat Harbour Omnonations I—Yes. I don't know that I have any thing to add to the ordenes goven by our secretary, who has intend very cleanly our position in regard to feation. We will appear very considerable downlop-sorts, owing to the natural extension of our trade. 20th Have you approached the Board of Trade for power to increase your drawl-No, it has not been accessary to do so yet, and we hope it won't be more-

NSST. You den't inhere to increase the draw unless you cannot help it—You carrous the idea quite clearly, 3888. It is not a cheep port, you wen't get existed. —We require the proper as most experient, having re-gard to the mannfeature of incilline. Cheirman.] We are very much obliged to the Har-bour Communitarys for the valuable ovidence they have given us. Ballast is the only case where nothing is asseded from the Government.

Mr. F. L. Horse, J.P., representing the Belfast Chamber of Commerce, called in; and Examined

Chairman 3399. You represent the Belfast Chamber of Con-

nerces—xxx.
339) You are an ex-President of the Chamber!—
You, and at present a member of the Council. I are
also Chairman of the Postal and Telegraphic Committoe of the Chamber; a Harbour Commissions, and a member of the firm of G. Heyn and Sem, who are members of the Ulster Steephing Company, Ltd (established in 1677), owners of the "Head" Lans unremodated in 107), owners of the "Head" Line and "Lord" Line stemmers—all vessels of large temper angued in foreign trade. I am asked to attend this Carmination as a representative of the Belfast Chem-ber of Orenzarron, but as I understand the Commission a minarily interested in the wetking of the part I, will contrasted nor greatmon with any own expension regarding the switching and developing of the inside of our conjumy and their absence. The services one detailed by the stress of the st many non-sequence consequences of the conseque

directed to the development of trade through the por-for transhipment of goods by sea, to British as continuous, ports; and also by see and real to all parts of Ireland, constricting Belland an excellent distributing centre. The quantities of carpo for distribution chrough Belland by the company's giaments during the two pre-war years more as follows:

General cargo forwarded by rail

Total General carse transhipped, cross-

13,034 Gonzal cargo forwarded by rail 7.635 Total 41.472 A considerable quantity of traffic also goes by lighter

8,610 25,445 16,835 6.942 I 13103

6,161

through the Lagun Canal, which might be materially increased by imposeument of the canal, and particu-larly if the Ulater Canal (connecting Lough Neigh bet) sould be made a connecting link from Lough Error to the Shanzon—full canal trails could be established so the Shamons—full count traffic could be established from Bellots, right into the Northern Gentre and West of Trained, reaching as far as Limewith. The excess works to the way count to the way consisted length of flat and heavy for the two countries the stayle of flat and heavy for the two deeps the flat and heavy for the two seems of the flat and heavy for the flat and the stayle of the stayle of the stayle of the two stayles and the stayles of the flat and the stayles of the st cross-Channel stemship services from a next with all the leading parts in England and Scot-land, right round to London and the principal yorks on the sea-count of Scotland and England—thus giv-ton the sea-count of Scotland and England—thus giv-ton. The ring economic leadment for communication of transport archivers also afferd favorable means of transport from Belfast to interior points, all three (Gratt Northern, Mrithard and County Bown) comporting with the docks, so that wagers are leaded prartically along24 September 1918.7 Chairman-continued

side the steamship, saving cost of cartage, labour and risk of damage is goods. The progress of trade by the econyary through the port has been custimuses and very progressive. For instance, in the year 1894, when we first occurrenced to work up the forwarding what translations cargo, the torsange was 1/400, and, in 1800 increased to 15,000, whereas in 1254 (es. dilwid) mithiated the translations can gap by an alleredy mithiated the translations can be seen to the The progress of trade by ally-day inflamency are transparent sage of amounted to 25,538 ten; translaturant sage by roil amounted to 15,004 tons; total, 41,472 tons; and undoubtedly further progress would have been made had conditions remained according to secure or companies. the war a steady and progressive movement and furgraph Committee The Chamber is a very represents graph Committee. The Chamber is a very representa-tive body, entrangung the proceed trading reference of Belliast and district of Ulster. It has a number of trude sections, representing the bedding statements, such as fine-princing, lines manufactured, shipping and shiphinitiers, whitesale grooms, etc., each of which certiform measures a member on the Consoil, so that the Chamber of Commerce is fully convergant

Chairman-continued,

with all trades, and any questions or difficulties which arise are promptly taken up and dealt with by the Chimber, which is in constant direct touch with Commiser, whose is in commission direct track with most of the Government departments. I am not aware that we have any solious generation to put before the Commission. We seem to be quite shie through the Only Council and the Harbour Commissioners to deal

Mr Zindson 3891. I have always understood that quick turn round is what shipowners desire more than anything 3292 Roughly speaking, the turn round here is suffi-cently quick 1-Yes

5223. Is there any grain elevator besides the one year company own?—We have two less and one in 3294. Is there enother in Belfast beads year two

Mr. R. B. Farn, Member of Belfast Chamber of Communes, called in ; and Essentiaed, Chairmen-centimed

3256. We would be very glad to get some informa-tion from you, Mr. Pair!—I have been away from home and only got netice a short time age that you would be ariting here this evening, so I had no time voting to striking over the returning, so I have not time to propage notes of evidence. I am largely interested in the importation of grain. I have been here for 58 years, and I would lake to bear testimenty to the are throughly astinded with the developments that have taken place and the itselfities that have been provided. So far as the discharging of grain is con-owned, we can discharge as fast as it is delivered. We owned, we can emerge as that as it is commune, we have put out 1,000 tens a day bulk gram. If you have four in begs you can even do more. We have every faculty for shops on the quays and deep water for our vessels to he m to give a seady turn-round to the

ships and he are given a computational of the ships of the clevitor!

Yes. We exceed the Ludius our during the war. We were competing in that trade with Glasgow and Liverwere competing in that trade with this gover and accept pool, and very successfully owing to the laddities we have at our hands bern. A certain portion of our stuff was put into the small boats. In pleasary year we would send by the easal mined from \$4,000 to \$,000

2207. What is the expectty of the canal boats !-From 50 to 80 or 100 tons. They right run heroad shall. (2008 How are they propelled i-Mestly by peles and across-fowed up the river to the first lock and by choracs addressed. There are access motor lighters, but not a great many of them. Of course, we are look-ing for them and it would bely use to the course, the course of the course to the course of the thet that it is of the course of the cour

that that \$6 co.

3303 That the motion of the water was prejudicial
to the banks L. Yea; of course, that difficulty may be
solved too. We look on it here that the counts are a solved foo. We look on it here that the confail are a sear great help to us no competition with he rachesy for the testific of the country, and that there are posts where the consider it into that the entary do not both when the confails then the local way to be the constant in such that the canalise would have been in both that the canalise would have been to been in such that the canalise would have been to be the constant in the constant which is the constant in the cons have repeatedly appeared before the Board of Works to get help for the development of that canal or the respressment of it. The Government get rail of a Unifortensiely, the Legan Energisten took it are on terms favograble to the Government but not to then-3001. Are the Lagan Navigation Company under an

agreement in regard to keeping the canal in proper working orders—I think so. But I think they were agreement in regard to keeping the canal in proper working cederl —I think so. But I think they were maded by the Government Engineer of the day as to the expenditure that would be necessary to make it the exposurements were income the locks |-I gain.

Tath. Boy No. know saything about the locks |-I have been through the locks. We are very anxious to have been through the lock. There has been some surfail to be the lock of the lock

Colonel Gretton

3375: Is the Ulater Gazal passable for oanal harges?

—Yes. We have sent lighters to Managhan and Clease. in pre-war times, so through to Lough Erne I—No. 2009 Can you get through to Lough Erne I—No. 2009 In the Layon Navgation open I—It is. 2009 From Bellist to Lough Naugh? Yes, and to Conlained. Neatly all the treffic of our inside for Conlained.

NW. If the Uniter Crasl were improved would traffe seems along !—You mean to Belfast? come along i—You mean to Briffmer 3398 Yea, or above Bellissi F—Yoe, I believe three is a possibility of considerable development.
3350 What happens is that a count in a rival to the railway in its traffic i—The question is what the realway position will be in the future.

2010 The railway runs parallel to the Ulster Canal
for some distance t—Yes.

Mr. Hudson 3311 I take it that your view is that it would be desurces to keep the navigation and the canal opened up purely for the purpose of competition b. Not only that, but for the purpose of touching districts that the rail ways do not touch and to encourage the cultivation

3312 Do you believe it would be useful for that pur-pose 3-4 do. The fact in that the delivery of goods into canal boats is very much suscen-to put the goods into the canal boats is runth suspec then parting them into canal routs is very mora engine, so put the good ma-the canal boats is much simpler than putting them into radiway wagers. We can lead these lighters very

(Continued.

rapidly overaids—much more supedly than you can lead railway ungure. It is a great help to our trade

Mr. Wilson-Fey. 3333 On that question of discharging goods from the harbour, are the military laculities equal to the facilities at the harbour?—There are times when there

as congestom in regard to the railway incitation 2024. But on the whole—They serve viry well. 2024. Do not the whole They serve viry well. 2025. On the whole the railway Incitation are equal to the hardway Incitation—Incitation are on the 2021. Where did that staff that you put on the canals p to 1—Chingle to Fortedome, Calculated and on the Direct Canal to Monagaian. 2025. To that a quant that you divide world be

3318. Is that a canal that you think would be smill -Not to Belfast. I think for intermediate

traffic it might be 3319 But not for Belfant!—No

Mr. Lindson.

Mo, Lindaue,
Mi, L

orga.

3335. The rates are comparatively small!—It de-pends on what the rathesy rates would be.

3395. It is a fauly expensive canal to work!—Yes. points on what the bearing the canal to work!—Yes, \$255, It is a fairly expensive canal to work!—Yes, \$255, When you used it, whoch was seen years, so,, if yan send much of your stud to Monaphin by the canal or by railway!—By the railway, so, and made subsety company made a chievalous the op, and made

carriery company made is convenient to do so, and made it the practice to do so by the rates they charged. 3338. The railway was chosper and more convenient to you than the water?—The pailway company made it chaper, but first was a special rate.

3800 When you did send by water had you any
difficulty in getting lighters. Not as a rule. There
was a difficulty at certain seasons.

NA6 Yen are Chairman of the Lagin Narqueton Company 1—Yes, and Managing Director of the Inland Narquation Company. The Lagin Narquetons Com-pany has no lighters, but the Inland Navagation Com-pany as a carrying company. New Teach State of Company pays you?

— Yes.

598. Here you many by-tendors?—They are all bytradors because the Lagan Navigation Company out.

10 lighters. We have about 100 lighters on the canal
allegather, and they are all owned by by-4roders.

5040. Year company over here cases.—A little over

Diff. Year company one has study—a time deep to MOD. All years in a market high short the contribution of the contribution of

Mr. Lindsay-continued NNO. As far as your particular trade is concerned the waterway might be moral, but for general traffic it would not be very much used 5. That is so think as the canal is there the Government ought to

keep it there.

X332. You, I gather, are advecating that we should make a recommodistion to Parliament or to our main committee to have a sum of money allotted to put the Ilbary Canal in order i-Yes. 3333. If that were done, who is going to keep it up?

SSSS. If that were done, who is group to keep 80 op?—That as a matter for the Generament to decide SSSS. Whe would you suggest that the State should hand it to?—I don't think you will get any look each puny to take 50 up after the experience of the pre-scat company. They got an unfortunate largery from the Government.

Mr. Field. 3335 You have good shed accommodation at Bolfust?

-Yes. 3336. You pay for it?—Yes, we pay, of course, town inco, and for the goods kept these for a certain time. does, and for the pools key throe for a certain time.

We bloop as a pay each.

3357. A light rest—it is a comparatively light
rest—15 as a comparatively light
rest. The cases as to key the short less.

3358. Here you sent any carpose up or down the
cased recently—We have set the guint to sent.

3339. When you dot each thou, thit the consid give
you have not be rest thou, this the consid give
XMD. Set became to 3340. Is the canal in such a condition that you would be able to send up a cargo if you had a cargo to send—selt un a navigable condition at the present time !—Mr.

He will namer that.

341 About the railways, is your experience that
the rolling stock is not adequate to meet the require-xients very often and the vagous are not to be had! There are times.

3542. Does it frequently occur!--Well, it has fre-

2502. Does it frequently occur l—Well, it has fre-quently occurry—I would say very recently. 2504. Recently!—I would say very recently. 3504. Would the cural be available to carry that traffer!—It is a great help. 2505. Your view, I takes it, is that with the develop-ment of agriculture three would be much more traffic on the carall !—Ver. You would have the drute.

traffic and therefore more profitable working.

Mr. W. R. Rus, Charman of the Lagon Navigation Company and Managing Director of the Inland Navigation Company, called in; and Examined. Chairman-continued.

a thing that possibly might be got over, but there is not sufficent traffic. There are no magnificationing out-comes not anything of that sort to provide a large traits of coal or core, such as we carry on the Lague Casal. The carral was also organizally rands margin profit loads and the lague of the coal that a report loads to be seen than a such a case of the profit loads to be seen than on the other canals. That state out all the good paying loads 3555. Was that due to the size of the locks—Kas, the locks were all read, The length as the same as but of the Length can be seen that the coal of the locks—Sas, about 5 feet narrower

alout 5 dat matrower.

3506. What water have you get in the sillst-The
matrians daught is 5 feet.

Negation 1-10 and 1-10 and
mod order. We have no expenditus into it is in
aged order. We have no exquisition in-16 in in
great on our feet. In the feet and the traffic that is
given to so there. In the the maleny companies some
given to so there. In the the maleny companies some
abort of wagens, too generally speaking we are also
also cope with all the intiffic and to carry it mislate.

torily. XX66. Do you contemplate making any improvement on the Lagen Navagators—No, there as nothing as when in contemplation of a rich part of the contemplation of a rich part of the contemplation of a rich as highest occurred to the lagent of the contemplation of the contemplation of development on the Lagent Newplation because it can sow with all our surplex portil, and the examil is that when we are unions for any out improvements on the Lagent Newplation we carry out improvements on the Lagent Newplation we

3357. Can.

Chairman-continued.

\$257. Can you let us have a statement showing the amount carried I—Yea, roughly apraking, the Up-traffic was about \$25,000 bons in pre-war time, and about \$0,000 tons in war times, and the Boen traffic is about 50,000 to 40,000 tens. 3508. How do your rates compare with the salinay rates I—The salinay rates at present in some places are lower thin onts. Cancelly speaking, in accoun-tiones our rates and the ratinay rates are practically the same, the reason being that the ratinay companies come down to our rates and the result is with the quasher service they can give, they can cut us out of the traffic. That occurred at Monaghan. They can

of the buffle. That occurred at stonegless any te-m out completely three. I interviewed Mr. Baywell, the manager of the Great Necharm Baffway, and be told me straight, "We carmed do anything becomes it railways, and we are deeng if here." This cuts us cut completely.

3509. Is there any way that you son get around that?

No, I don't think so. Since we took over the Uniter Chrail we have been recking if up, and deeng cut askent to make a paying thing of it, but no series succeeded in deing suptime except festing \$2,000 a.

your, and, to up either, that team is not textly heaplass.

5560. Would you tell the committee the negotiations that took place between you and the Government as to the Ulster Canal some 50 years ago I—The canal was organish on the hand of the Beard of Works. They organally in the heads of the Record or Works. Truy as abstratements in the Press solving for effects for the contact. There were no others feetbearing, and the contact the contact that the contact basis, and when it came before the Hozas of Lords the chairmas of the Committee said: "Will you take this canal in perpectify!" I said: "No, it is con-inary to our arrangement.," He said, "We will postpore the Ball for a week, and we will give you no Bill unless in the meantum you agree to show the canal in per-petuity." I cance house and consulted the campaign. printly." I came some and consumed me conquery, and having spent so much money in promoting the Bill, they decided to take it.

they desified to take it.

356. In other weeds, you are the victims of a difference of opinion between the Board of Weels and the Lores' Committee 1-Ves. We were savined that there would be an ample supply of water. The engresse, whe was also engineer for the Board of Weels, said: "I plouge my emistement hat if these works are carried out three will be no obstrate of water." He is dead, but there is a shretage of water in the canal, and that is one of the thomps that killed

us.

3368 What I want you to do is to make a state-ment showing what your loss would be if you gave the Ulster Chrisl credit for the tells on the Lagan the Ubser Canal critist for the tells on the Lägas that would not be three if the annual bad bose closed: 3363. Year claim as a superior of the common of th

Mr. Moksey I I appeal see behalf of the Engran Dries Consact to get a great for harbout improve-tions of the second of the second of the second Lough, better allow early of the second of the Lough, better allow early of the second of the was not you small peer in Bangor. At that time there was not such a domand for this as there is at present. possible of the second of this as there is at present. possible of the town has increased from 50,00 for \$1,000. In the examer: time the visitors being the population of the short of 0,000.

Mr. Lindso-continued. 3369. I gather if the Ulater Canal were shandrand purpose, and yast about pays its way, or a little (se)
3568. If it paid anything substantial you would have
to give credit for that 1— Yes. It does not give anything

[Continued.

substantial.

3366. At Coloraine there was evidence to show that
there was an increase in traffic on the Bann I—We have 5570. Do you are any prospect of using the Beau at Calcoans !- I don't know so much about it dress

ero, and, condidly, that is not our interest 3371. You want to bring the leaffic to Belfaut !-3372. Are you carrying any of this clay !- Tes, penc-

3374. How many lighters here you get1—Fire moton lightees and one engine ready to install 3374. Have you found any many to the bank as a result of aming the metor lighten 3—No. NWS. You look forward nather to the moreass of motors !- Tes. 3376. You still trade up to Moy !—Yes. 3375a. And you don't trade penmelf to Portadova?

-Not regularly, but we go there when fall cargous

sec. 3377. Your tuga take over the lighters?—Yes

NNS Do I understand you to say that the cenals are securely notful for the tennemission of goods ac-sess securely notful for the tennemission of goods ac-ted to the tennemission of goods ac-tivated to the tennemission of intelligent tennemission of the tennemission of the little tunds over the utilise distance. Since we cannot be the tennemission of the tennemission of the cases here there are no searchy of wheth. Here does it happen that you were so existend an expectage of accordance and the tennemission of the tennemission of the content tennel. There has been no direct to give up the Ulater Ganal bypend fave miles for the last times years 336%. Its that essay to the country of water 1—No one has been sending lighters 3368. It makeneded you to say that the breadth of the canal had sensething to do with it. How many looks are on the Ulster Canal 1—Twenty-siz, I thuis 3382. Yes said also, I think, that the agreements of the country men did not make any effect to provide a lighter. Wan may application mode to these ment—I was not specif-ing as much of the agricultural near as of the people of Monaghan, which was the strenghold of our traile They get their traffic largely by the railway, but for a time they got it by the canal, to large down the mail

3383 Is it your view that if the Ulster Canal is 5000 is it your waw that it the Ulear cannot on allowed to po destlict that it would not proposed out agricultural interests of the districts served had on only answer that by saying that all the time we were trying to work the Ulator Chrosl we get prosideally no poedace down. 5334 So you think the agricultural development of the country would not suffer if the Uluter Ganal were shut down!-Judging by our past experience, I would

say not.

2008. Even in face of the increased agricultural perdraction—I cannot say as to the future.

2009. Would yet also the representability of shratting

control of the success involved in the upleary of it,

becomes I don't kinds it is weeth light the yet of it,

Choiresan I We are very much abliged to you, Mr.

Res, for the excitace you have given.

Statement by Mr. W. L. Manaryr, Solicitor, representing Bangor (Co. Down) Urban Council.

3337. You are putting all this in, in evidence !-- Yes 3335 I may say at once that the evidence all tends

338. We understand that, but it does not come within our reference. We cannot make any suggestion that the harbour should be built?—It is only the built? ing of two walls for the purpose of familiating

Mr. Mahapey.

import. If greater inclities were given for land-ing fish there would be a big trade there, and Belfast could be supplied with fish that otherwise would come

come or copylites were non time constraint would consider Solidard. On this ground, we suggest that the matter comes within your Tenns of Reference.

5269 All we have got to do is to find out the facilities offered by post and intrious. We can landly say that we recommend that a knowley should be already applied to the County Council to see if they could obtain a grant to enable us to do this, but extirely

come comme a grant to onsure us to to that, the natural without macoust.

3991 We realize that you want another harbour-that you want more feasilities and we would strongly accommend you to the Department of the Government

3368 Have you applied, Mr Makaffy, to the Do-

My York partment of Agazeltore, who are looking after this particular humans !-- Yes, through the County Council.

3365. The County Council have applied, Mr. Mahaffy I-I don't know whether they have applied. but they did not give us any great encoursepender.

2004. We will place the ordence before our Mann Committee, but I don't know what soften they will take. We are very sympatheten—Freshably you would suggest to the Man Committee at they would consider

this afternoon, and given us very valuable informa-

Statement of the Lord Mayor or BRITARY

The Lord Mayor of Belfest (Alderman Ser James My absence was not due to any want of courtesy. If welcome you here now, and I should have liked to have done so certier in the day

Chairman, I On behalf of the 8th-Committee, I with to think you showedly for the kind worsh you have spekin. It has given us any great pleasure for come to Belliasi and see your poet. I think I may say that the sub-committee were deeply impressed, and are very proval that Belliasi is the great sespon of

TWENTIETH PUBLIC SITTING: WEDNESDAY, 25rd SEPTEMBER, 1918,

At the Town HALL NEWSY, at 3 p.m.

MUNICIPAL PRINCIPAL Mr. Wilson-Pox, M.P., Chairman of Select Mr. W A Landsay, M.P.

Committee. Mr. Matthew Keating, M.P. Mr. Walter Hudson, M.P. Mr. William Field, M.P. Mr. Parter MacNoury, Sterelory.

SOR ARTHUR SHIRLEY BENN, M.P. IN THE CUARS.

Choreson.] May I first of all say why the Sub-Cou-mittee is here! On the 5th of last menth the House of Coursons appointed a Select Communities for the pri-pose of committein what steps, if any, it is desirable to take to develop and improve the internal lacitities for transpers within the United Kingdom to secreeffective supervision and co-ordination, and to ensure that such developments and improvements should be recognize and suitable to meet the national require-incets and to make recommendations. That Select meets and to make recommendations. That Select Committee amounted a sub-committee, of which we

asier necessary for this purpose. We have varied a number of ports, and we have now come to Newty. nor managers entred ay ma poer in every that by the control who insultives are looking in order to encourage the trade of the port. We are not in the position of being able to prome anything further than putting the views laid before us to day before our Main Com-

Mr. Figer O'Hacan, Charmon of the Newty Harbout Trustee, called in ; and Exemitted

N86 You are the Chairman of the Newry Harbour Trustees L. Ves. On behalf of the Harbour Dustees more acce, of the damine that you have so for conject yourselves here. I do not untend up go the any figures, I will lease that to expect. You have come to upgare two temporal indiffuse may be diveloped in the port of Newry. Dur port serves a large distract—above \$500 acquais raise. The unmitteness optimize of the unrelated in Newry is that our port is unique and 0.278. anomalous. Originally the canal entered the river in the town, but about 180 years ago the Government the town, for some 109 years up to vovelesses as extended it about two miles down the river. It 1839 it was taken over by the Marquition On with the proven that it should be extended 14 miles further sensuals. This squares the advect of Mr. Nimno, a colewards. This agence the across of Mr. Numeo, a cou-brated ecquireer of the day. All this termed set disas-trous for the port; as the sam of ships increased and stameers replaced smiling vessels, with the result that the banks being best of loose pitching are being contimually washed away, and the cost of upkeep is getting 25 Sentember 1918 ?

Chairman-contigued

beyond the financial resources of the Trust. the town of Newty, and it has always been a so the torm of Newty, and it has always been a softer of assumement why the rare was not deepered undead of cutting a care! The measurement of the bown as that to heap say the temporer instillates and give Newty the brushe of its prographical position it is the the product of the prographical position it is the country to deeper the rave right up to the new and do new with the present sea care! We think that it is not adding ion much of the Government to do thus,

seeing that the emisting extension was against the advice of the Newry people and their engineer. And in 1880 so much were the Leeds of the Treasury improseed with that that they recommended a free grant of \$100,000, the estimated cost of a similar solveney. That is all I have to say, but other witnesses will give you

avidence.

3307. What became of the mosey!—The scheme fell through. They were not able at the time to buy up the chance of the Navigetica Company, who wanted \$55 per chare I behave. They wanted a very large sum. per share I believe. They writed a very large sum for the purchase of their obares. 3398 That Bell of 1899 was Caretti's Bell 3—Yes. The Treasury recommended a free grant of the full lenguard of the money to complete the undertaking—

\$209,000

3089. What position would the Hardwar Trustnes be in, in requel to getting local assistance towards any improvements that would be necessary le-Ar present they are being assisted by the town. The town has guaranteed the network on a town of 250,000 that purchased these shares that we have now—that purchased them shares that we have now—that purchased the undertaking, in fact. The town is always ready

Chairmen-contraped and willing to do everything that is in its power. They have assisted the Trust to the very best of their shifter.

along they would do't, but the ocheme at prosent as so granute that I am along they assistance would not them having regard to what they here already done Of course, when making that remark I am not right in saying that they would not do anything. That is in

Mr. Pield

3600 Are you in the same position new in regard to that £100,000 as when the offer was made by the Pressury-that is to say, do you want the messey as hally now!—The canal is worse, but of course that was to do away with the see canal.

5401. The promise of that memory was given on the made standing that the canal as it existed then and as if exists now was to be done away with and that you were to despon the river !- Yes 3400. What would be the amount of guerantee that could be given by the town!-I cannot say whether they would give anything at all or not . That question

has to be put before them. There is a gap present to the extent of \$25,000 by the town There is a quarantee of 3403 You sag in a worse position now than then !-Yes, on account of the fact that the canal is in a worse

3454 And the vessels have got bogger!- Yes 3405. The money is wanted more perticularly now than then !- Much more.

Mt. Atax Gagrass, Solicites to the Nowry Harbour Trustees, called in; and Exemined Cheirann 3406 You are Solicitor to the Newly Harbour Tustices?—Yes. I have been Solicitor to the old Newly Navigation Tunts and to the present Newly Harbour Tuntsee for 35 years. In 1983 I 86ccceded Harbour Dissess for ou years to it. The position of the Act of 1838—the Neary Navigation Act of 1839.

the Act of 1888—the Neary Navigation Act of 1282 That is really the foundation of the owner-they and the powers self-color to the present day. 2007. When did the change take place between the 2007. When did the change take place between the power self-color to the trips of the actual transfer, but there were a compared to the color to the color passed in the mannifes that I thank I cought to store passed in the mannifes that I thank I cought to store your attention to. There was always in Newey a cry cut for days wither and the dismanners are the color of the a hold in 1880. We are the color of the color of the a bodd in 1880. We are the color of the color of the color of a color of the color of the color of the color of the a bodd in 1880. We are not color of the color of the a color of the act of the color of t as existence, and, as you understand, they were a proprietary Board. They had subscribed their money, propriesary Deared any and subscribed their maney, proceeding \$800,000, wake up. I think, of 1,600 shares of \$250 each fully paid and they were in full possession at the time, but the decand from the people of Nurry fee an improvement in the waterway to the torm was so for an improvement in the waterway to the fown was so classicoses that it was fell that exceeding had to drive. Then printically all the leading ness of Kenry placed in premoting a full at their own expense. The placed in premoting that is their own expense. The Sengation Company had nothing to say to it, except that two or three of the progressives or directors. ware also promoters, but it was taken up by the people of Newry themselves, headed by Lucd Kilmorey. They of Newry themselves, headed by Leid Kilmorey. They applied for and obtained that Leit which is locally known as Carvill's Act of 1880. I have a copy of that Act here. They got powers of borrowing under the Act 200,000. That, of course condemplated that they were to buy out the obi shusholders. The rest of the in the Act Teacerst baseagn because, at a macra-tal Treasury were willing to advance the miney if the shareholders would go gove posses in the undertaking; but it fell through, and that Act of Parliament become

but it full through, and tass Account to a deal better.

3406 Was that reteny advanced to grant to be becomed. There was no questions of a grant 3409. Forcer was prec to borrow to Free, \$210,000 We could get to from the Pressury or in the open could get to from the Tressury or in the open Market was the £1(2,0007—I don't know if it 54(0,0007—I don't know if it was a five grant or a long. There was power to become £2(0,000 under the Art of Parlisment. Chairmen-continued

3411. In that £100,000 in addition to the £210.000 Self. By that Execution in solution to the \$210,000 or park of at 1-I don't know. I can only so by the Act of Parliament. These was power given by the Act of Parliament of 1835 to her row \$210,000, and the work to be done is not out in the Act

Mr. Lending

3412. The Act of 1800 makes normentons of £102,000;

—No. That application came later, I understand At all events, Carvill's Act of 1800 fell through, and then the old Navagation shareholders and preparatons full. that it was incombent upon them to do what they could in the resiter, and they then went for another Act of Parliament, to enable them to borrow £00,000 That was the Act of 1884 They got an Act, which I have here, which enabled them to betwee this sum of £40,000, Acce, which enabled when to between some sum of Res, on, and that was devoted to despening the channel up at the narrow waters near Wairenpeant 3413. They becrowed that memey !- Yes

3414 Have they paid off any of it? -At that time I 34.4 Have they paid on any or life-at that time thank the uniting loos they had from the Treatury wis to be about \$53,000, and they then between the transit of the between the transit of the between the transit of th The old Nasignion directors had to advance at one time. I timek, about 235,000 of their own manny to complete the work, but they get it flashed. The Act gave them power to shange ixten upon goods which they select they would move the water a county active the county of the county of the Br. Then in the county of the Br. Then in the county of the c really issued at small promises, 100 for £100 Mr. GARTLAN.

Mr. Lunday-continued stock. I should say that out of that money the debt to

3415. Does that mean the £78,000 !- Yes , and 1 think it is only fair to the old Navigation Company to say that there was not a penny that they got from the Treasury that they shd not gove back with full interest The Treasury never lest a halfpenny by them. In 1901 a Bill was passed transferring the whole undertaking,

with the liabilities, to the Newsy Pers and Harbour The printing then was that the concern was taken over subject to the debentmen for £72,000, and the errorsement was made that the halders of the \$20 shares were to get £25,000 between them. That £26,000 was berrowed, and there were also three other grail lears: Fast you had the £72,000 in Debentures, then you had £20,000 berrowed, and then there were

3416. What is the total dahi to-day?—It is nather paulier about that \$72,000. There was a staking land provided for the potention of the Debenture. right provides a year was to be per aside annually and meated in buying up the Debentures or purchase of Truster elected. I while there have been about \$22,000 of the Debentures bought up. That does not relieve the present Beard in any way, because the introsection

3417 You have only got 269,000 of these Deben-teres - Yes, but our liabilities with interest on the 212,000 has to be added. We have still to pay interest on the full 272,000. The other small beam were short.

3418. Can you tell us what is the debt to-day?-

3439 In addition to the £72,000?—Yes. The Deben-tures purchased by the Trustees are webdiawa from the public market and the interest on them goes to nerease the staking fund 3490. You only own £85,000 to-day !- Orite so. over two only one amount to any—Quite so. I don't think there is anything else that I need treather you with. There was power to become up to £80,000 ander the Act of 1884, but we did not do it at the time. Under the Act of 1891 we have also power to bornow 220,000 with the consent of the Board of Tunde,

Mr. Lindsay continued but the question is would anybody lend is, because the Scotch Provident Institution would take privity. 3021. You owe £85,000-have you power to raise any some?—Xes, under the Act of 1901 we can berrow £20,000 with the consent of the Board of Trade. Mt. Walson, Pers

3422. With regard to the £25,000, I understand the interest on that was guaranteed by the town?-Yes. 3625 Have they to pay anything under their granan-

Aski What sect of exces?-About \$432 was the first metalment they paid, and the last demand was some-thung about 6371

3425 If the undertaking prospers would that amount be separal to the town?—I thunk it would be under the

Mr. Lindson 3425 You say that the Trustees took over the Nav-sation in 1993 !--Yes. 3427 There was no public anthority before 19017-

3428 I suppose you are not us a position to give any evidence as to the conduton of the Navigation?—No but we have the Inland Inspector as well as the

3429 Do I understand you to say that you own 235,000?—Yes, to round numbers 200,000 — res, to reund musters 3430 What security have yes for the repayment of that!—The lenders have yet the whole undertaking, which extends very nearly from Fortadown to Warren-point—all the rates and folls

3431. Are your rates and tolls sufficient to meet the stuking fund and interest and also to maintain the surking fund and interest and also to maintain the caral properly?—Mr. Earnh, the Secretary, will be 3433. You said something about cyster beds !--Yes 3433. Where are these owster beds !---Blobs orrossite

3634 is the cyster fishing carried on still -Yes Mr Woodhouse did own these cyster held I cannot say who are the present owners.

Mr Rowann A Lam, Secretary to the Newry Harbour Trustees, called in; and Exemmed, Chairwas-continued Cheirmen

3435. You are St Trustees !-- Yes, sar are Societary to the Newsy Harbour 336 You have a statement which you wish to hand in!—Yes, I shall hand it statements of Inlied lictures of Capital and Striking Fund and of Learn from the Settlish Provident Inellindian —

STATEMENT OF INLAND BETHENS.

Years ending 31st March 1913 1913 1914. 1915. 35,300 32,520 35,420 22,680

Your . Tolls - 2660 12 1 2730 6 6 2811 0 7 2533 17 4 688 6 2 539 9 7 654 16 23 659 4 10 Tosta Under 10 tons, 8d per lock. 10 to 30 , 10d, . . . 30 to 40 40 to 50 50 to 55 832

Ordinary Lighten 46t, Draft to 401 Jun Ordinary Lighters 4ft 6in

STATEMENT OF CAPITAL AND SINKING Undertaking taken ever by Trustees on 6th October

Debeutures at 4 per cent (1897) £72,000 0 0 26,400 0 9 Parekase Money Parliamentary and other ex 3,600 D O

£102,000 0 First Belanco Shoot of Newry Poet and Harbour Youst 3Lst March, 1904 Sinking Fend for redemption of Debentures out of



600 0 £7,464 15 Purchased Bonds out of Ressures and Accesss

190 (100 Books -£12,1000 Mr. Lamb. [Goodsteam]

Charanan—continued.
STATEMENT OF LOANS FROM SCOTTISH
FROWIDENT INSTITUTION.

PROVIDENT INSTITUTION.

No. 1 Lo.s.

Princhase-enough of undereshing - .620,600 0 0

Oct. 1005 Instalment post 4756 5 9

1 1005 = .754 5 9

1 1005 = .754 5 9

1 1005 = .754 5 9

1806 122 4 0 1806 122 4 0 1807 122 4 0 1808 122 4 0 1808 122 4 0 1808 122 4 0 1808 122 4 0 1808 122 4 0

Low for Pumping Station, 1907 - £3,000 0 0 February 19th, 1908, Instalment (and 100 0 0

The term of Severy, which certic as the sea games of Court of Severy, which certic as the sea games of Court, when the sea games of Court, who the sea of Court, which the sea of Court of Court, which the sea of Court of

certified as having been obtained. A system of moor nbroys was also laid down in a pool in the liter abou scatter that statem here gene infrastly as models and decides in spaning entain beath. In 1600 the endo-decides in spaning entain beath. In 1600 the endo-decides in spaning entails are supported by the Newry Attendant Harbor Trast, who musclessed the Newry Pett and Newry Pett and Section 1000 and the New York of the the form. One hundred and twenty £100 debentures have been purchased out of sinking jund instalments and Greepers manuary on the doe ands ame the return on the other. Besides, the present back powers any trade in large stemants much as precent any require-ments demand. The function of the Harbour, as elected body, three-fifths of wirms represent the Urhan Council, are therefore non-monanty of the opinion that modulates for the requirements of the general corporate, but lifey are without finglis to radie any interest, but lifey are without finglis to radie any in-provenents, and they also see with regred that finds has gene from Newry to delip-water ports, so that they receipts are isosening and their crasking trade in precision, but was a lessening and their crasking trade in precision, but with the probability of requirem. It will not be a supersimed for your life of the probability of requirem. he seen, therefore, that the Trustees, who are all conaccted with the leasing twices of the town, are debarred not only from amproving the waterway so as to afferd adequate accommodation for traffic, but even to do any canal to the river, where there is ample scope for making a peoper channel from deep water to the town making a proper camma from deep water to me pow-of Newry, would promote the development of their poil or give it the advantage of its natural position. With 7 foot already existing in part of the river, a further despening of 10 or 12 feet up to the prepaned basks at within an hour of low water the tide would be availwhich an about or low water the title would be avan-able for a large number of small wasels, and would materially increase the seaborne truffs and develop

May Thee ser very interesting statements, which we will hiring into our Report. There are a few points upon which we would like to question you — There were a crughe of matters reachioused in the last switcher that I would like to relate to. In commentary with the Mr. LANS.

Act of 1880 a sum of £21,000 was to be raused for the corebase of the Canal Company, the payment of the certains of the certain cold the improvements at an estimated east of \$100,000. The Themset processed at free grant of \$100,000 to carry out the improvements. That fell through ewing to the fact that the their Navagetten Centage are used to the fact that the their Navagetten Centage are water \$250 for their \$500.

3338. That meant they were only going to laws debenings issued for the difference!. There were no debeniures at that tune.

debeniores at teas unes.

339 Then were no debeniuses to be usued for the
purchase!—This was in 1800 thin Bill was passed.

345 You were to have power to contract leasts for
2213,0001—2106,000 that we could still herew. 2500,0001—2508,000 that we could still berrow.

3443. At that kneel—Yes
3443. The people did not think it good oneigh to
buy cut the chical proprietors at \$555 per share!—No

bay out the obtain propriesses as now he interested from There was amother genetics with registal to the Transco-Tacy also formed by Act of Parliament. In conse-quence of the gaussines that the town gave for the articraking, must measure of the Trustees are elected by the Newry Urban Countal, three by the shippersons

3443. This body was firmed in 1901 !- Yes. 3444. Prior to that you had no public authority in

3445 Year cost imports were down last year ?—Yes, owing to the closing of the ports and the shortege of bannage 3446 So that prior to the war you had sufficient money to pay your interest — Yes, but not to pay the sinking fund or the usual instalment of the loan raid off no instalment on our learn since 1908 We

paid all no instalment on our leans anne 1998. We have not paid the auking innd on the debasteron 34W. How about your dreat—Prite to the war we charged is a ful and out, and we have increased that now plus 30 per cent. We have increased our outgo rates on could be 100 per cent.—0.03, per too. We are confined by Act of Firstangent to certical fruit Grant to did and from 6. We are charge the till loss on the contract of the country of the 3446 That is regulated by Act of Parliaments.
Tee At the present time the only testic we are
getting a cost
3446 If you wanted to you

getting in east 3440 II you wanted to raise your lates further, to when would you have to apply !— If we wanted to mine our sea tolls, we would not have to apply to anyone, here to wanted to make your latest to the case of the our sea tolls, we would not have to apply to anyone, because our limit in very high, but in the case of the cargo rates we would have to apply to the Brand of Trade if we woulded to inviews them

240. Who is the authority in regard to the riser from Victoria Lock to the town I—We are: 245. Were you always that I—Wes 246. Year would have no difficulty in substituting the river for the casting small—We would possibly sequer the persission of the Administry, leds it is

within our pursuing of the Admiralty, has it is within our pursuintion. 3455 The railway to Warnenpoint is over a swing bridge - Xta. 3454 Who insisted on that !- Probably our prefe-

3605. The Navigation Company. You control the river as well?—You. 3456 And they had nothing to do with it?

Mr Gordon | They brought up boats at one time.

The Railway Company some years ago wanted to close.

THE RAMINAL DESIGNATION SOME PROTECTION OF SHADON TO GLOBAL THREE evidence at that time that boats had been brought up 3457 As a rule, Mr Lamb, the inland portion of the

Navogation has nother mode money nor lest money !-Not up to this moment 3458. Does it contribute any person of the Navigation?...Yes. my recent to the set

Mr Insilosy-continued MSB Is there much downward traffic !- No, only

360. Is it all going up traffic?—Yes 360. Even though you lose a little on the minof portion, you would not his to see it closed?—No. 3602 You as a body are quite propered to like a little money!—We have been prepared to lose a little

3465 Have you ascertained what amount is brought to the inhand navigation as compared with the scal-We only change against the inhand receipts the actual the Canal Control Committee came they permit us to

the Cuast Control Committee came they permit is to charge 10 per cent on establishment enginess against the similed portion it goes to Longil Bodgil. The that count being those we see able to get rail-way freights from here to Monaghus for 4c, whereto 7 or 8 males farther on the rate of the country of MAC. How many miles i—The difference between Clines and Monaghus.

3466. What is the rate to Armagh?—4s from here It is a direct line from here. The missi tells in the very 1856 were \$1,532. Last year they were only £535

year 1850 were in 200.

A question was naked about the goasentre which the town has given. The town guarantees the interest on the loan of £28,000. There was a railway premoted in town has given. The town guarantees the interest on the lean of £25,000. Three was a railway premeted in the same year, and they guaranteed interest on that as well, but that has fallen through. I think the Newry

2466. I understand irror your evidence that there is no authority over the Harborn Trastees at all I—You have the Board of Frisic, of course 3469. Have you may other authority such as the County Council —No. 3665. Or any Department of the Irah Executive !-None The only thing is that the Nowry Urban Council control our Beard owing to the fact that they 3460. The higher authority is the English Board of Trafe!-Yes 3470. Do you think it would be to the interest of this

over an the incours and protein basiness fairly.

3471. You think such a heely would understand your difficulty f...Yes. Nowey is the best subsaid centre on the East count for distribution. We cover an area of the East coast for distribution. We cover an area about 2,500 agazar miles, with a population of 500,000.

3478 Parliament forced this town, or the authority which council the port, to spend £80,000 f—Yee Tany persisted, against the advice of the people, to extend the canal a mile and a hulf further into the saver

3475. How often has the Board of Trade refused any requests that have been made to them by the Harboun Commissioners :- We never made a request to them 3474 You never asked them !-No. I don't think there would be any use.

3475. Do I unforstand that at the true the proposal

39Th. Bo I manuschan than at no time an proposed came from the British Government, the improvement could have been carried out if the shareholders had taken less for their charge—Tex, at that time 50Th. I believe those were £50 shares 1—Yes 54Th. And they warned £55 —Yes 54Th. And they warned £55 —Yes 54Th. And they were subsequently sold for £801— Men They hacked the wrong horse that time What position are you in at the present time with regard to sinking fund and interest!—Last year we

regard to sinking fund and interest!-Last year we earned forward \$3,685 to not revenue account, and it takes \$3,925 to pay interest alone 3430 So that you were just able to pay the interest?

-About £220 short. —About 2200 thort.

3031. How are you able to keep up the canal !—We had to go to the teen for that charge

3423. Only for the assessance given by the town you mught have to that up the canal !—Yes. 3463 So you are in this position—that unless you not some assistance the cornal will be closed up, unless Mt Field-continued

the town guarantees what is necessary to keep the canal going?—Tes And this year, owing to the war austactions, we may not be able to pay interest on our debenfurns or loans, 3484 If the reland canal was closed you think the railway rates worked by raised !--Yes 3486 Is it your opinion that it is necessary in the

anterests of the expects and imports to have that com-petition between the two!—Yes. 3485 Is it year ordane that this canal serves, I think you said, 2,500 square mites —The peet, I said, 3487 The pert is served by the canal —Yea. 3488 This park, you said, serves that imments area?

-Yes

3492. Are you of opinion, in connection with the messaged food production, that you would have a greater expect of food to Great British if the improvements you require ware surved out "-Critishly 3460 That the risks of this remarky—the agriculture." 3440 That the trade of this country—the agriculture of this country—would be benefited, and that the Bernah people would be better field—Unquestionably 3491. Your opmoor also is that we ought to have an Lappenial authority over all the ports and harbornst—

3492 I gather from your evidence that the volume

of your trade is largely in connection with enal? - Yes. 593 And if the improvement which have been one limited here so say were carried out of you climit here have been your limited here been you carried to the young and the proper server from the Green Services Been green as the proper server from the Green Services Been green you have been been green as the proper server from the Green Services and the services and the services and the services and the services are constantly an intellegant to the Market Services of constantly an intellegant for the Services Services and the Services Services Services and the Services Service Great Northern in reference to this matter, and once I became Secretary to the Harbour Trust this complaint became so regular that when Mr. Brigges was appeared Director of Transportation I afternessed him with regard to this matter. He saked me to ex-plain how it came under his supervision, and I said that I thought he was appointed for the purpose of

that I throught he was approximed for one purpose of getting obspicing faculties increased and getting vessels away. I said, "If you can get us a better capply of wagens we can send more shaps away." For six menths we had no complaint whatever, but it has gone 3456 Can you tell me what snawer you received from the Bailway Company !- They could not give us the

3407. Do they lay down any regulations as to the notice that should be given than in connection with wagens?—The merchants give the notice 3628. Do they give renomable notice !—Yes. In my pinner, in Newty we do not got the advantage from opinion, in Newty we do not for the streaming count the Great Northarn Radbery that we as critical to I reake that statement deliberately and pubboly. Another great facility to us would be if the Radbery Company put in a siding on the ears said of the Albert

3499 Have you asked for it?—Yes, years ago

M: Frank Finnes, J.P., Sternskip Owner and Mer Examined Member of Newry Harbour Trust, called in; and

Charman 550) You sae a steamblip owner, Mr. Fishes, and a member of the Hashour Truest.—Yes, sir 1621 1 onlinearizing by the steamens to make!—The The Newry Indiand Canal is a formy to the head leng. There are tex looks from Newry to the head level as Poyntipose. The house here here in the remaining the same than the Chairman-continued which connects with Fortsdoor and Lough Neagh The lasts are 60 to 5 m long, 15 h bread, and 5 ft 4 ft. The lasts are 60 to 5 m long, 15 h bread, and 5 ft 4 ft. The lasts are 10 to 5 m long, 15 h bread and 5 ft 4 ft. that does neighbor the cannel as 60 ft. 5 m long, 6 ft. 6 bread and carries equity-eight bear on a 6 ft. 5 m long, 6 ft. 6 ft. and 15 m long, 15 m long, 15 ft. 7 m long, 6 ft. 6 m. beat 15 m long, 15 m long, 15 ft. 7 m long, 6 ft. 6 m. 15 m long, long. Inside as one one case like the property in the last Popynispass. The head lavel is over three noise leves. There are three locks from the head level at Tallyboogan to the cut. There is a cut of about one selfle long councering the causal to the flower Burn,

want via Bellint in consequence of the driayed service.
SS17 Perishnble produce went to places where there 3600 Have you asked for it - see, years ago as Bargers was disen have hunself last year-3600. What objection slid the Ballway Company rune - They said it would out them an extra algoral 518 That applied to live stock !- Yes. 2019 Did you have a good expert trade in live stock?
Yes We have a witness here on that subject max on that side of the line

No. 3613. They are inter-dependent 1—Yes 3314. Your statistics for 1912, 1913, and 1914 were in the whole satorisotory—they were showing a pro-2015. Have you any tenson to believe that if the port facilities were unproved that you would greatly increase the apport tastfo from the apprentized dis-telet.—Tes These has been an energical merease in the arres of land uniter contraston. The area univer-

the area of land uniter cultivation. The area unifer cultivation has runnwestly increased. 3516 How was it that, with the present facilities, none agreeditural produce did not go—A great deal of the agricultural produce that should have cerea have

do you think that there would have to be structural of the control on the line 1. There should be a 3512 You could not do one without doing the other?

3511. Supposing this larger scheme was carried out

largely a question of working.
Sil0. You think with their present line and facilities they could clear the port and do all that is necessary?

3506 Is does not clear satisfactory to-day 2-As it is working it does not clear settafactoraly 3509 You think it is a question of working !- It is

3607 I understood that the present railway famili-ties are not adequate to the trade of the port as it as t-

south without at the same time mercosing the rati-tion that we thought the rational state of the sallways were way facilities. —I consider that if the sallways were compelled to do then duty that we would have no

Mr B'doss-Feg. 3935 Then I gather from you that you consider a further obstacle at this moment to expeditious frame. so the railway—that the railway is congested and is blocking the peat!—Yes 3506 Would it he any use to increase the po-

Belfast This double brie is a very easenful thing. 2805. Is there any real congection of traffic owing to the line boing angle?—Yes. The coal lies at Edward Street States wouling in the passenger issues to come 3504 You have no statistics on that point—the tomage of coal that is lest here for the want of trains?—There is a gentleman here in the coal trade

cent more coal over their system than we do, and between Newry and Warrenpoint we send more than NOS Is there a limited number of trains at present wing to the single line?—Yea. The distance from

Continued

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Mr. Freque

[Cloudingsed]

Chairmen-continued. part of a hith lock have stone floors—the rest are

woods. The casal is fed from various sources, but the main supply as from Lough Sheek, near Source, and the Outher River through the Tundrague feeder. The small is in fair conflictor, and, taken all reand, will able to bold its own for carriage of coal in competition with the gailway that runs alongside its entere diswith the railway than runs a bangon in the traffic on the canal. The cold is leaded an steamer at Newry, so hat the mind perton of the undertaking is entirely

8 II. with nexts to self- and enaces without evid-with motor engines to carry up to, may 150-200 tone. By accessing the head level about 35 ft and adjoin-ing levels in grounding you could dispose with seven locks and have the waters of the Evan River flowing. locks and have the waters of the Easth Alver 1994(1), into Nowry and supplying the requisite depth in the comal. This would mean the six locks on the Nowry and of the head local to be enlarged. This december sols of the head level to be enlarged. This deopering would wantly improve the drunning of the surrounding

country.

2nd Daopen the causal by three feet, which would also mean all the thirteen looks being doubt with continue and the theoret own tract of the test of the 3rd To carry on as at present and put it in the best



has kept its depth, with the exception of non sept ats depts, with the exception of Victoria Beaus, and which large steamers up to 5,000 tone, after highwang can come up and displaying always affort in Victoria Barra. There is the Indied Canel, about 18 miles long, between Newry and the Rever Barra The third part is the connecting fink between the other two, via, the Star Carel.

Without the Star Carel.

order from the design Cayan and the control of the

the then existing canal. Those steamers, when the canal was normal, took from 600 to 700 tons to Newyr-Gradually the canal filled in, and, within a short time, the steamers had to be lightened. At the present the seasurest had to be lightened. At the present large our description and the form of the cent them, with the centil of full beight, can barely with safety come up. The trustees are face to face with the fact that at no very distinct date the seatme under-taking from Ostringteel Loudin to Lough Nesign may be closed fee all practical purposes. Any presents and the result of the result of the control of the conman boking at the reve abrigate the critis involves why the casis even over to be made. If was itseed by the these Covermon at the point of the best-out the contract of the point of the p

out the river and deepen it up to see some a service.

In my opmon there is no other way to develop and forder the large and important area served by the Newry Harbour Board. Whilst there is no other way to develop the area and increase its tasks, it may be asked whether it is possible to de anything in any other direction to enable the undertaking to carry or us being closes. You have hund how the cental and its east were forced upon us, and how the boun re-cently acquired the centerm in the lope of deing some thing. The present Debenture field is about 250,000 and leans about £55,000 1 suggested that, when the Government of the day and the us with this look, the present Government and the second of the second o country and holding on to what we have trading in normal times we take grain. It is always full cargoes we deal with. At the present time we are reading coul to the West of Ireland. That is due to

3522 Can you lead from your stourners into the highlest - Yes ingities: - Ins.

3828 How are the banks of the canal?-They are
not so were bed. The lighters are all pulled by herees,
and do not interfere with the banks to the same astent as the propellers do in the other pert of the

cama.

3694 Has any effort been made to use motor beats?

—It is just beginning. The horse is cheaper from here to Portadown when you have a how-post. Once you leave Pertadows and cross Lough Neagh, of course

My Field

3688 Are you of ournow, here your great expen-sure of Newry, that if this canal was closed it would not alone affect the prospectly of Newry, but do it serious impay 1—Undowheelly, there can be no quies ton about that 1000 about max. 2000 that the premous witness, who said that Newry was almost equal to Belfast in the matter of sending out over the Great Northern Ballows was extent—Test. I believe a long time ago persons sending letters to Belliant used to address them. "Belliant max Northern Ballow, max Northern the Sending Letters to Belliant used to address them." Belliant max Northern Ballow, max Northern Sending.

thing to start with then we had,

has, mar Norry 3352 You attribute the great prosperty and do-3527 You attribute the great prosperty and do-ded the second of the second of the second facilities.—There as no double that he includes at Bulinst these.—There are no double that he includes at Bulinst been, of course, occasionably improved their trade. 3638 While wor hardour has great least bod to second—Ear I don't believe that Belline had a better

25 September 1918.1 Mr. FIRHER.

Mr. Field-continued 3529. You look upon the improvement of transp

incilitian here as not only an Irash but as an imperial quastion?—Anything that opins up the whole country

3500. With the increased agricultural production you would have a great deal inter export?—Yes, and we would get it cheeper across to England if we

3831. Have you may experience about the want of facilities on the railway !-- I can confirm what has been

Mr. Kentine.

3532 Oan you give us any estimate as to the come-most that could be effected by having these facilities such as hime been outlined—I more commany in transit? sich is have been oseffined—I more commy in transe?—Two mean if the river was despend and measurer could come up to the lower of Newry.

Lago quantities of great the could be dealt with The procedure is that those trade to dealth with The procedure is that those large statement have to send down injutions. 2554 The conversy would be obstitute—Two. If we could take out in stemmers of 1,000 days are could out out the could be sent to the country of the c

rald take cost in stermers of 1,000 term we could stry it cheaper than in stermers of 300 or 400 term 3505. One you give us any estimate as to the cotro stellane of commonties that you could import or ex-port from Newry if these improvements were carried ont?—It would be very hard to estimate that, but it

onti-II would be very hird to estimate that, but it mould be very consideable mould be very consideable and the interest of estimate would be necessary in the interest of estimate workspread one of the most prosperous parts of Iroland, and we self-only, burknapped by the wast of localities as self-only, burknapped by the wast of localities in the self-only, burknapped by the last performance is hampered. Fig. by not being talls to get out.

Mr Zindsey

3638 You returned to the action of the Government in 1839 in forcing the directors to extend the cural to the Victoria Locks I.—Yes

the Vectors Locks?—Yes
3830 What evidence have you get that this drastic
action was taken?—I think it is all on record. The
action was taken?—I think it is all on record. The action was taken —— miner if is an our record.

Government committed three comment confiners. Two of them said that the proper thing to do was to despen the unresent passage. The third man and the proper the unresent passage. the present passage. The third man said the proper thing was to orient the canal, 3540 That is not exactly my point. I wanted to

know what pressue the Government brought to bear in order to get this scheme adopted !—They were pre-viding the mency to a cartain crites! They wend not give the maney except on the result in they would not give the maney except on their own scheme. They said, "We will give you money if you make the canal, but not if you deepen the river." 3541. For any now that the Treesure should do 3541. You say now that the Treasury should do something to stone for the misdeeds of their predecesors!--Yes

ouscest—xes 3542. You must have evidence that the picsware was such as you suggest !—Yes, 3543. You spoke just now of narrous achieves in

connection with the improvement of the inheric canal?

—Yes.

3844 You spoke about the canal on your inlined navigation. Evidence was given before us at Dabbin shawing that the navigation was by no means exhibito-tory. Do you know the League No. Our Inland.

Mr Francisco D Russett, Coal Merchant, Newry, called in , and Examined

Chorreson-continued 3564 You are a coal murchant, Mr. Russell !- Yes,

ASE. 2566 Lock of facilities for transport in commercion with coal?

—Yes I have been commercial with the coal teafou in
Newry for about twenty-five years, the business of which is carried on in small cossing steamers, princiwhich is carped on in seaso counting steamers, practly about 150 tons to 400 tens burdlen. Great difficulty is experienced in obtaining this size of difficulty is experienced in obtaining this size of steamer, as owners have for many years part been bridding steamers of a much larger capacity, giving and those peaces that these peaces that is resement on a worked much those peaces that is presented to a worked much Mr. Lindsay-continued.

3545 About the shortage of wagens on the rankety. Did that shortage exist before the was 1-Yes, it is an

(Continued)

old graveance.

3546 Have you not got one at of the Great Northern
disactors, a Norry ment—Yes

3547. Have you appealed to from I—Yes, we saw the accours, but they said they had not enough of wegons 3543 What did they say before the war?—The same

thing.
3569. You are not alone in that complaint?—No.
We rather think that Belfisst gots a little more fair.

play from we do 3550. About the doubling of the line to Goragh-wood, do you think that that would make a maloral difference - Yes: I think after the war the rullway

Mr. Wilson-Fox 3551. You mention schemes for improving the canal

2831. You mustice advances for improving the small I gather from that that you don't agree with the oddence given by IEr Lands, who says that the chief varies of leavening that casin joing are to keep demission of the control of th

we had not that inland canal
3665. Would not the money by better spens on the callways - No, not from the point of view of a port In would be better to put our mland canal in order, so as to compete with the railway.

3064. Do you think it would be a commercial position to get money into both. Can you make them both pay if you spend money on them?—If we spent money on our inland canal we would make it pay

the present time it is able to pay its way, and if it were improved you could send larger barges down the canal \$355. It would pay the cost of doug it in-Yea \$355. It the railway were doubled would it not pay them to take the professor them to take the professor that the railway should be doubled, eacept from Newry to Grouphecot. The traffic joins the main line at Geographecot. The traffic joins \$2500 Tel. Section 1.000.

2607 Then yet consider that it would be a commu-cial preparation both to improve the catal and to have a double line of rulway to Gorghwood!—Yes 2008 You think the traffic would justify both!—

3869 I take it that you favour the despening of the river to make it enturity navigable, and abardoning that periods of the oxial --Yes. that perticks of the canal I—Yes, 250 That is year view in regard to powent and infrare seguinements—That is right X50. With regard to the solling tenflo, can yea give me the average number of suggest that would be leaded here in normal linea—how many wagens would be leaded by the I—Mr Form has goes into that very these.

Chairman

3562 He will give evidence in a few minutes Mr Field

3563 Have you any facelities, Mr. Fisher, for exporting live stock !- We have indifferent facilities.

more occurrically, and the result is that structure suitable for Newry are becoming increasingly more difficult to obtain. These little stemmers suitable for this port have an average speed of seven to none knots per how, and in consequence nearly above his fine kindle per how, and in consequence nearly above his the next tide here when coming from the Moreny and Comberhald ports, and the result is that they are obliged to anchor in Carlingford Lough for seven are eight heurs awaring the next fixed twic before coming to Norry. The same condition of infairs very offer occurs when clear of cargo, being too late to look out in which case another seven or cight hours are

Mr. ROSSELL 25 September 1918.]

Chairman-continued waiting on the coming of field tide. As a years, merchants have to pay about 6d, per ton exten freight, which is a sensor matter in ordinary times, and very detrimental to the trade of this port, as years go past I am convenced that unless something As your up past I am ouromed that unless sensitings about 10 mayors the satteryary, Newry, as a distillating centre, will come to hold the position in the future is that drawn in the past, as the, whole tendency is for a long tendency in for a long tendency in the drawn that the based of the same that which offers the less thouse of grant despited. Owing to the geographical position of Newry, it should be an a posential to serve one of the hopped management. to the I have so doubled, probably trebled, that is, provided the Greet Northern Railway Company pro-road sufficient rolling stock to meet the requireraind united to recting stone to more the require-ments of on extension of business. Whethere publical differences exist in Newry there is one thing we are also utely united about and that is, that the Impunial Generation have use done sufficients to surprove the Government have not done callings to suppose an uniterways of Ireland as a whole and Newsy in par-

uniceways of Freiand as a whose and Newty in par-boular. The ceal merchants, time and again, have approached the Trustees of the Newty Port and Harapproximen one trustees of the newsy sort and Har-bear Print with a view to getting the existing water-ways improved. but are always met with the same analyse. "Ne menty! Bo money!" 3566 Can you tell me whether the Great Northern Solitory have land down any regulatoras requiring more channes to give notice for wagnes that are required to We samply give them good long notice when we require the wagnes, but unfortunately sufficient

3507. What is your usual notice?-Three to four days, and sometimes longer; never loss. We gener-3568 Was 1914 your best your for the 'import of coal !--Not so far as I know. I took the financial year immediately proceding the war

3560 In your openion, if better facilities core in your openion, it netter facilities were clired for insparing of the coal to valuant places to-quinting it, do you think that the coal trade would suppose here—Yes, I thus so, extrainly 3570 Air you interested in the scheme that has been pet fee wand by the pervison writenss —Yes.

Mr. Hudso-continued. 3671 From a development point of view !-- Yes.

3072 You think, if the scheme to deepen the rive and abandon the canal were adopted, that it would be more protectable !-- it would be a great been to 3573 And would be presently approved !-- Yes,

Mr London

3874. You said just now to the Chairman that the Imperial Government neglected the enterways of Ireland - Yes

3575 Are you familian with the Shamon !- No. corn are you institute visual the commonly—Not.

Whyn They in the supplet that, but the trother
you have been a supplet that, but the trother
to the manner of the supplet that the trother
to the manner of the trother of the trother
to the manner of the trother of the trother
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matter up ture and again and sent department on the
trother of the trother of the trother
trother of trother
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trother of trother
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trothe

menter before them. The directors made the excuse that the shortage of wagons was due to the wor, but before the war there was also a shortage. On one occasion we blocked a Bill which they were premot-ing in Parliament, in order to bring them to their

3576: That's the way to do it? They sold on that the Bill was to obtain meany to enable them to mean mates abods, and that if they got that money at what enable them to byild most recling stock, and it we beloed the Bill it would prove them. We

occus. Style it your opinion that the railways are, like the Georganist giving loss of sympathy, but hitle help!—We have prestoudly no competition against the Great Northern here. They have a menopoly of attic here. 3890. Is not the caral an oppositant !—Yes, but only

5830. It not the small as oppositum—Ves, fit cony, or a small way, or applies, that if the improvingents were curried out it would not only benefit Newry, but the whole surreading statement—Ves. 2882. And that you would have some copyets and NoSS 1 it year openion that harboars and canale ought to be locked after by the Government as In-print concerns—Ves, i Thank in its thart day to

Mr. FREEZENCE FERRIS, Coal Morchant, called in; and Ecomoned. Chairses-continued

5584. You are a coal merchant residing in Nowry? Note that the continues of the property of the Collection of the C out arrive and sull at any state of the tide, it drives an edvantage from cheaper see freights that enables "I to compute for business successfully in districts that otherwise would be served from Newry unifor similar post to the west is counterbalanced by the extra cost

of putting cargoes on real and the additional rate payable to the Dindrilk and Greenze Railway for truffic passang over their line before being transferred to the Great Northern Railway system. The schedule of pulsa from Newry, Dendalk and Bellast to the different towns arresd by the Great Northern Railway different seem acreal by the Girat Northern Balbary and whilening qualitary attent as a plane the pastine that parts occupies. I hand it a copy of these rates for the information in the Committee. The inhand canal joint the Berrer Beam as Petitoliem, and are more an extension of the Committee. The inhand canal joint the Berrer Beam as Petitoliem, and are more another than the committee of the C 25 Scotember 1918.1 Mr. Francis,

has the Blackwater River a few rates from Lough Neagh. There are eight looks on this canal of the sarro dimensions as those on the Neary Conel from the Blackwater Breer at Charlement eight miles from Lough Naugh. It connects with Lough Roms, but has been allow at to become detablet for a perior part of its length, and lightens can proceed no further than Battlefood Bandge, two makes above Bentherb. Up to seem years ago those was a regular traffic to far as Closus, but this has been devented for some time to the Gent Nothern Stallmay Company. The locks or Neight coal is freewarded to Krimege, Bullyream and Neepost Francis, but for same years the Legan Newgo-tion Company laws persolited lighters proceeding from Newy access Leach Neight by changing them decible the towage Belfant lighters pay for the same purracy. This has tamode to direct radiate to Belfant. The total quantity of east seat over the Inland Canal to the different places mentioned measurated to 26 420 tears in At present, during the seminar months, the occessing and draws applies from the Indian Garal, which, in cased draws, applies from the Indian Garal, which, in case of the present of the comparison of the compari of over 350 tons, and lately have been threatening to discontinue smaling any steemers, owing to the con-dition of this stretch of the care! It would require the expenditure of a considerable sain of money to make it suitable for steamers of 500 tons burthen; and even after this expenditure, it would cost a considerable where of deep water to Nowry, by despiring the Nowry, Bever, is the cody Searlike plan. As a natural sequence, the result would be lower see freights and in-creased situacy of superior, with a cet responding benefit unit ony to the Post of Nowry, but also to those distincts for which it is the material poet. Communicies that have see from time to time sequence into the develop-ment of hardward and of Pelkard flows had, on for

and its approaches by the Committee, who would not have fulfied to note [85 natural advantages, a measure of Government support will be irribouring to place it in the position as a distributing centre that its situa-3889. Your evidence is very interesting. De I understand that at present Bellast and Durdall have been reting trafe that legiterately belongs to Newry bellast him. We can compute successfully in Dun.

SSST. It would take a good deal of money to make the cannil aralleble for \$900-ton stemmers. Would you be satisfied with a \$500-ton wearner !— That would be improved by because there is an equidated at the Albert Beain that would not person of E. 3588 Why could it not be despetted !- There would be some difficulty with the aparenet, under which the drainage of the West Ward Bows, quite close to the Albert Basin.

3569 You said that the Lapua Narigation enalted lighters proceeding from Newry across Lough prashined highten proceeding from Newry screen Lough Neath by changing sites downlik the tomage Bellint lighters pay for the same journey 8—Yes X600. Cut you protings prooff—Xes; I have the schedule of teruge robes across Lough Neagh. For armore years they have divided—and in some cashs tested to—the towage rates on lightens peaceoffing from Newry. They change Newry lighten 25 do, to Cast-

Chan man-continued island and, seconding to three nebodile rate, it should be only \$2.5 at. They change just double the schools be only \$2.5 at. They change just double the schools Derry side of Econd Meedy, and into toxage rate, in the adjust, way, aboud be about \$5.18 ; and they share \$2.18 to \$1. do not have the season of it. Think the \$2.18 to \$1. do not have the season of it. Think the \$2.18 to \$1. do not have the season of it. Think the Company has the coatfol of the towage on Long-ton and the season of the seaso Assign. Ithis, or counte, includes against as in fewery sending coal there, because it amounts to proctically a lie, a no more than it should be. The advance of the hability, increase the tradic from Lough Neagh in Neavy, because we can dispense then with towage 3581. You stated that formerly a consideral goard ongo trafe came over by the cross-Charach

A Continued

3802. And you state that this had practically consed, probably under the system of through rates attemped by the rallway company?—You

3063 Does that mean that the radway company rade a through rate trees a point to non-market and amount of which is lower b-There was a considerable amount of peaced cupe came across from England, and at was transhipped. That has consed for some time. That

3594 Are you certain that discrimination is car cited in reference to the towage rates in favour of Belfast os against Newry?—Oh, yes; I have the proofs

here 3505. Did you take any action in reference to it i— We wrote to the Logan Enrigation about it. 3505. Did you consult the Newry Aughburty that her the control of the canal here?—I cannot say that we did.

3507 May I suggest to you that if the Authority
suffers by reason of the fact that their traffic is interfered with, owing to the discrimination being exercised

2598 There ought to be equality of treat SMS There ought to be equality to treatment.

Yes. I have told you the treatment we get in Xerry.

X00 You think that the river is the proper thing
not the present canal. Yes.

Mr Xeating

3600. Can you give us may evidence so to the volume of imports and exports that would be increased, in the out with any new and to give an estimate. I were say, roughly, that, if deep water was in accomplished fact that the imports and exports could be doubted and, in all probability, trabled by increased facilities 3501 Will you be able to give us seens approximate stud. Will you be able to give us some approximate figures, beyond a general expression of opinion?—I can only these for the railway business. We would be abb, with deep water here, to have, so decreased so-rate of is a ton, and that is, would be in our favour. 2602 Will you consult your fellow traders, and try to goe us approximate figures —I think we can arrange to be you have these figures.

Mr. Lindson 3603. When you hand over a lighter to the Lague

Navagation, where to you hand it over \$- Portadown
Note. Do you hand over more than one highler of a
time?—Semetimes one and sometimes half a decen-1006 What would the normal condition of thense be —About three lighters at a time 1600. How far is it from Pertudown to Ballyrouni— About twenty-two raffer About twenty-two raftes 5097. How far as it from Ethis Ceri to Ballyreaun 1— About sighteen unites, I should say. 5068 H is solly about sin. It might be twelve, but not more h—Hy obsertions to the towage is that the Lagan Nevigation Company have mixed a schedule of towage rates, and that they have not actived to these rates.

rates.

3600 They may have found in practice that the tor-age was much more expensive to do. Besides, your distance is much langue—back from Portadowa to

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Mr. Pressu

(Continued

Mr. Zandssy-continued. Ballyronan !-- I would expect that they would adhere is the rates that they laid down. That is my com-plaint, that they have not done so.

When did they begin to after the rates !-think it has been going on since 1912, although that is the towage rates they issued to us.

except in the sensior months, when the draft of water is reduced considerably is reduced considerably.

Solfs in Dubbie Mr. Statlington advocated the State
connecting of the Newry Canal. You dea't think, if
the State took is over, that there would be any con-

but that is only temperarily.

2014 He was advocating a permanent thing. Do you

Mr. Wilnes-Fox.

JOHN THE WAT has been better than the local control-cating the war has been better than the local control-venil you peeler to work ander II—We would brackly smartedly from the Government heaving control-3510. Bo you find that the Government see running a better—It is the local people that are locking after so better —It is the local people that are belong after It has not such any classic with encaperated Ed.T in 194, belong the an angerwith Ed.T in 194, belong the any, what was the average price of coal landed lines from stomace I about 15 is stom coal and 26s, for the best heems coal. Zolla Xol I suppose in he interest it would be prac-tically the saint, plus the eartra code of carriage I—

NOR. Do you think that a semple full in price of a is a box would have a great effect in increasing the cocommpten?--It would have some effect. I don't

sy enveruing cost treen other porms — 1cs, also an ra-creased communicated of cost 3620. In your own trude, do you send any large pro-pertion of ordious to the accuracy by the costal?—We have

tens each. It would represent about 1,000 tons a

3610 They defa't enter mate a contract with ven?

3615 Have you found that the Government control

duting that it should serve that does not come strongs it, and which we would andeathedly get if we but the Societies for taking in large stranger. Soil A large proportion of the increave would be by directing coal from other ports?—Yes, and an in-

an harges on the cased constantly employed.

My Jone Stokes, J.P., representing the Dundalk and Newry Steam Packet Company, called its; and Exercised.

3536. You represent the Dundalk and Newry Steam Packet Company !—Yes Poster Company I—Ten
55N. Then you have some existence to give us regurding trading from Newry I—Ten. The Danfalk and
Newry Steam Packet Company, Ltd., have been trading for over forty years, and entirely from Newry,
her ng left Warrenpint in 1876. The watersay with from much better in river and canal, and they stormers to said the looks for Newey trade. But bean would justify to fit the locks, and could have been 15-30 it longer had the locks been suitable. They had also to be constructed for earnal depth. For Toy had also to be constructed for samel depth. For the past teersterine years the coast has not been dreigned. Teen of stores, the remaining of the sade princi-um that all callies in, have been taken used by diver-time to impose about the bands and the worst above, but have quantities will remain combodied in the assumulated mid, resulting from the decay, and have high proof the case the principle of the pro-traction of the case brinks. We next the dethe accumulated mnd, recolding from the accur, and breaking flows of the canal banks. To meet the de-creased water the surface level his had to be kept up coused water, the surface level has had to be kept up to the hubber point possible, but, even with this, vessels sunned come up drawing maything more than 5 ft 3 in at A. All over the summer a large pumping part has to be kept running to keep up the lovel, and this over us not sufficient, as the level is frequently down four and air inches, and consistently write in more Been at the part of the contract of these water and the contract of the visw's cannot use more than 40-50 per cent of ther

Mr Hudsen 3622. You mentioned, I think, the large amount of coal that was imported to this harbour in 18141— 210,000 tons, I think it was 3683 I think you meationed in your a

35,420 term was sent inland by consit—Yes I can give you the figures by rail . 85,738 teas went by rail

3624, 85,738 tens went ever the Great Northern for the year 1914 !-- Yes.

5625. Have you any difficulty in petting wagons from the Great Northern to There is always a deficially. I

increasing in proportion to the morease in this traffic 3625. They are not capable of coping with it !-- No ; and during the war it has become wone

3687 You beard the project put forward as regard to the dredging of the river in order to bring a large type of stemmer up to Nowry!—You 2028 In your opinson, do you think that that project generally approved by the people!—Yes, whole-

3629. You think that is a cheme that they would like to see adopted !--Yee

3500 Have you mry complaint to make in regard to facilities at the delect—If you suggested that the Great Northern might put to make in the east said for the distinction of the court of t bends it and cause could be exceld. Some of the steament are not adapted to discharge by their own gear. On the east ride we would require hellicies for the duchage of cargons of coal if the amperis were 353. Is these any coal carted from here?—Yes, to the different yards on the quay 3632 is it carted from here inland?—No, except to

Chairman 2633 These figures that you have handed in-an they official i-Yes, from the Great Northern Rail

2034 It seems that Newry and Warrenpoint com-buned sent out more coel than Belfare i—Yes 56X6. In 1923-14 Newry and Warrenpoint combined shapped more coal them Belfare i—That is no, over the Great Newthern Reldway.

Chairment-continued cargo capacity to get up and have often even with this medicam of cargo to lighten their vessels to en-able them to both at the quay. The estable port on through silting, impedes the progress on neapt especially, or when the 6th has fallen. The average time almost of Wareequith, in §§ hours, or in two traps, in and out, at much time a look and contained as as would hime; the element to Liverpool hor. A) is sat yould hime; the element to Liverpool hor. A) is sat possible to order the scanal, and the dense of the solid contained to the scan of the stan of the scan of the Character and an artifact

ence. Since the replacement by steam of the old saillocal town trade, but the inland import and exper shipments would be developed, and if a direct rai the river and circal. Salvings has to be food to unit-tion, and the departners very from zone to randrught. Rachery corrections are often mused, and has slock decrease. The Steam Packet Company handless year, about 20100 form off spaced cares. Last reading about 20100 form off spaced cares. Last reading the state of the second primes but of the second packet and the salving benchmark which would accoun-able and the salving benchmar which would accoun-ted the second packet of the second packet and the salving benchmark which would accoun-t the salving benchmark which would be salving and the salving benchmark which would be salving and the salving benchmark which would be salving and the salving benchmark which we will be salving to the salving the salving benchmark which we will be an account to the salving benchmark which we will be a salving to the salving benchmark which we will be a salving to the salving benchmark which we will be a salving to the salving benchmark which we will be a salving to the salving benchmark which would be salving to the salving benchmark which we will be salving to the salving to th mention or fogs outside, a delay in the passage of a steamer coming to Newry, which now means making See fide to enter the focks and a community has of believe hears' work, would, if the channel were in-proved to a depth of, say, 10 ft at low water, permit the stanner to come to her berth, and be observed in-stead of lying dily at methors in the bay.

AND, It year gaps, with the pursups streams for the best stream with the pursups and the stream with the strea

Charmes-contained.

AND What do your steamper draw?—We cannot being then up drawing more than 13 ft. 3 ms, and that amounts only is 60 per cent. of the curry we could not you will be the country with the do it large trads in general cargo and write. We shave to make occurations by the trans to

590. Would you increase the due of your beat it you had more water!—Yee, and it there was a long-3541. Would that mean that you could affond to carry teem for less momey!—Yea. The cargoo that we cannot carry we are obliged to seek to Belfast on the Dablin occasions! There would be trude except to

3542 The begins the stemmer the chresper the cost of manning it—Yes.

5655. Can you get sufficient easys to yastidy a begins that we could I think the trode could warrant than. We handle for the your about 26/00 least of general cargo, and we are not able to accommon older it all. In commention with last year's solid intid-

which takes We bandle in the year about \$50,00 are the restriction of the work of the restriction of the res

Not Write on Mr Wilson-Fer.

Monthly The Control of the Control of

of eagges 30%. Would that be a winer constructed of fittibut."

No. 11 should be of stone or controls. We propose in the schome that the hirror be designed to ten or travite feet, that these should be a connecting fook large council, to sent askips of 50% forts, and along the sale of the river to have a whorf, and of that point or would be convenient for the rathway company to have a feet for the rathway company to have a

When the second of the second

380. Have you formed any idea as to whether the precess can't could be despended and assed to entry your process can't could be despended as so that you were seen to be supported by the process of the

NOS3 The lengthering of a lock is not a very trescendion matter. In the general body wide enough as the first property body wide in the property body wide in the control of the control o

3657. Has

Mr. Lindsoy-continued

arrangement with the Trust as to the payment of does!

-We communicated the short !

-We comparaised the does for an annual association 5008. You pay a regular freed until 1-Yes 5008. You pay a regular freed on the expension of some years 1-Yes. When we went frieffing up to Warregrains about 1070 we need until the by the Norrigotian Company to once to Norry; and we past them 21,102. After the tree was despended they pin on \$2500 more contributed to the pay of the pay. mg 61,550 360. That is a fixed sum each year !—Yea

Mr. Kenting

3661. Do you confirm the opinion expressed by the plant and enlarge his present ptennion if there was a better service. He is obliged to send his goods elso where. He would enlarge his pressess if the facili-

reer!—King m so

M63. What sayn do you take back!—We take seed pointon, beiter, eggs, lines, yarm and perishable carro, some of which we often had to leave behind, and fix

commodition i—Yes, we have to retuse cargo.

3505. That is the point that I wanted to emphasisethat in your judgment the instinual capacity is limited by the limitations have on the years—It is un-

Mr. Field

3006 There are several manufacturers in the town who export goods *~Xe. 3807. Have yest been hampered in this export by the confidence of the manufactor?~We have 3068. I observe that there is a large pumping engine?—Xe. 3062. I understand that it to be provide water for the canal in the summer time!—It is 3670 What about the live-stock trade!—We could do a larger live-stock trade if we had better familities

3871 About how many heads do you carry 5...I can give you the figures for the your saided July last. They are 10.000 cattle and 30.000 and old shoot, without counting your or other animals

Mr. STOKES

Mr. Field-continued 3972 Could you have taken maps if this proposed improvement had taken place?-We could

3075 Do you thrak you would get them !- I am restore of it. We have to refuse them

3674. Tour expast of cattle as limited owing so the limited feminism you have I—Nes.
3005. You exacted that you would be able to put on larger steamers I—We would Self6 In to your operators that it would be a had plan to try to improve the extel and not deepen the liver. I would rather spand the money on the reser.

3657 You said secretaing about the want of railway incition on the cust side?—Yes Coal only is dis-

changed on the east side. We have no rathway com-munication on the cost side.

3572. You believe that if this unprovement were counted out at would enable you to have a greater eaand increased import owing to increased facilities?-

3679 You look on the unprovement as a material matter 2—I do, ser, enterely Mr. Hudoss

3099. You have told the Committee that, in order to facilitate trade, there should be a neithern sating put in ut a current piace from the running line into the

3082. Take at now-say 1914—that would be normal?

-I cannot give you the number of wagons because one cargo to general 3063. Can you give it in term!-I suppose it would be 150 tons a week. to 199 tous a week.

2594 On an average?—Yes, but I may be wrong.

I have no figures by me I know the trade we have is
not at all what we should have. We should have far
more of this kind of traffic that now goes to other

3035. You would have inward as well as outwards !-Yes. 3686. Could you get to the Great Northern on an overage a hundred tons a week?—I think these would

Mr. ROENET KERR, J.P., Propositor of the Newry Flax-Tow Spenning Mills, called in , and Examined Charcings-continued Charrman

3687 You are the propertor, Mr. Kenr, of the Newry Flax Dow Spanning Mills 1-Yes Newy Flax The Squaming Mills I—Vec.

2008. Analy you are going to still us the difficulties

the State of the Squaming Mills I and the state of the Steam Packet Outspany are unable to shap it, owing to the teafic often goe dramaged lying in wagams all And-ronan. Burther, owing to the water of delay smillings and uncertainty of sulfings solventeed, my Social con-tainty of the second of the second of the con-laid orders because of my indicate the con-property, and I tenfered much measurement as well by obey the insensed traffic of one. Occup to those year department of the contract of the con-vent family compelled, very retoriously, to shareford hermal my tenfer use of belief to the Ary Social Schipping Company, free whom I get as early dispured Company, free whom I get as early and the contract of the contract of the con-

kent daily serves and prompt deliveres, and consequently I am now giving satisfaction to my Solich conjugates. This means to me a very my Soulch emissions. This means to be a very considerable increase in freight classings, the invasi-and colvered traffic costing me about 12s of per too. more than by the Durdak and Newy Steam Reco-Company via Arthosom, and I am therefore hands-capped to that exists with my competitors, the Soul-Company was Astronom, and I am thursteen boards of production, who have many and a more a miner of production, the same and the more as miner of production, the same and the

would be attented to it and present minuties or tended for more present minuties or tended. For some time past I have been considering an extension of one on industry but owage to meet friency of femals black mix would be implicators of very control of the second of the control of the very control of the second of the control of the work of the control of the control of the control would be control of the control of the control of the in the next button, when the inches control will get presented as day a faults the finals full (it is it species well

great future before Newery.
2004 Too have green as a very clear idea of the difficulties in the naster of irraspore. You neutroned efficiently the state of irraspore. You neutroned a numbrated benefit surely area—You. If we go deep safer to Newey, frush minimizes would be established. I would stated my own hangess for one Smarp particulars on that statter one be given by the too the property of the state of of t was compelled to do no owing to want of facilities loop water to the town is the near thing to loop before your mind. The cest would be a small thing compered to what we are spending now on the war

-about £300,000 an hour Mr. Lindson 3090 Supposing this deep water was brought up, do you expect that you would get a daily sading from Andressan!—Yes 3591. Do you believe there would be sufficient 3602 How many sallings were there before the war!

-Two week?

And two from Liverpool?-Yes, I think there would be an enormous increase in traffic. Mr. ROBERT BREAKEY, Manager to Mr. Robert Sands, Millowner and Orner Merchant, Changer Mills, Nowercalled in ; and Bressmod. Chairman

2000. You drare to give us some estimate, 24... Breakey 1—Yes, sir. As importers of direct cargoes of trains for milling purposes to Newry, the difficulties with which we have to content are numerous, and in the first training of the first will which we have to contend are numerics, and in storny wealths impossible to overcome. In the first place, we would notified that steamers e2,000 oc 5,000 Lough, twelve suffer them Newey, and discharge part of their cargo into barges. When this is dress the electance proceeds up the ivere to Victorias Bestin, from makes frost Nowey, when the discharge has to be com-pleted. There is notified quarter and with the Vic-pleted. There is notified quarter are when it is by Vis-pleted. slid loss atheres tarcers, and at yeares see must has as accumulated that at low water a large reusel would, we few, lie on the must instead of affect, One of the difficulties to which we would refer is the last that we have to convey the men who descharge, week, and superintend the whole work of discharge, by house or notor cars from Newry to Carlington Lough, and to the Victoria Basin, and get them about by means of small boats, or in rough weather we have so hire a venil viene knurch. In good washer this is not without risk, wherean streamy washer it in only by the closest supermany that the work on additional control of the control of the control additional control of the state various feet both to get about, to refer with a state of the control of the control of the state various feet of the control of the control of place when milesting is dozen in a expected position, whither in location or name. Grain current by dis-sibilities in location of the control of the control with the control of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the substitute of the control of the control of the control of the control of the substitute of the control of chainful 28 he receive, and 25 mm happened design notwitheringing our trouble of setting about, we might only get a few hours' work done each day. Our rest, difficulty is that of prevaling lighters to carry the goals from the steamer in our wills, which is

Mr. Israiesy-continued.

3994 it is a very log jump to increase from two statings to tax weekly?—It would take time.
3995. You speke about new industries being stayled. 3995. You spelos about new industries being stayled. You suggested that some would be stanted if there was deep anoter to Newryl—Yes. We had a Symbly m Newry in my young days. It is gone.

390. Would you say that it is gone because of hale of treatpool facilities. I can handly say that 3697. I was wondering as to whether you could make

any tamphic auggestion as to what new industry could be established !-- Leather and some

Leather is one

Mon Ton have not given much thought to the
particular industries that could be established?—No.

3700 What was the "Murphy" ligney? In this a jobe or is it is correct.—It is no carmet. A greatest was a consensured to the consensure of the debts consensured of the debts of the term, according to the will. Mr. Fess

NVII. You spoke about a foundry being in Newry fermenty!—Ton NVIZ Is those from near hore!—No. NVIX You would have to import non!—Ton. NVIX You would have to import non!—Ton. NVIX Along the tannery, where would you get the holes?—Belfest and the servending districts.

Chan

NOTE Year evidence that you would increase your own hustness is important—Yes, The Gravitanem would zerve yould mively belier in Ireland that it sending deep water to Newry, and if you have any influence with the Chancellor of the Enchoques—who is a county Antons man—recommend him to give this grant and we will excel a resummant to him.

the case of a camp of 4,000 to 5,000 tons, is considerable. Nearly all the lighters in this port are built and equipped for causal work and threshow manufable fis going into the longh, whete own: means weather this sea of the means weather the sea often breaks awer them when calls weather the as often being, well-from an other book and in could weather the course result and to the could be a state of the could be a state o

inside or wordy one by and and nature from News between the state of the state of the state of the state of the the state of the state sides would intrody to correct we was fur supposed free grain importer in the parts strendy monthings or or free Liverpeck. In this case we are confined to a partly local track small results to keep our relifies unning to their full capacity, and when we cannot do this residentially in several times it as unperfutable proposition. Nowry, being situated about midway between

Mr. BREAKEY.

· FContinued.

Chairson-continued Chairman—continued

Delin and Belfast, as the natural port for a large opticalized distinct, and is in a splended pention for the forming and distinct, and is in a splended pention for the farming constituting gains and feeding stuffs to be farming constituting as a minimum cost, but the can only be obtained by having a materiary that will exalled drest steemers to come tight up to the town.

and thereby save all the additional charges and expenses that now exist.

3716 You got those steamers in 2-We have, in pre-

are days.

30'Ca. What draft of water i—Drawing about 20 it
30'Ca. What draft of water i—Drawing about 20 it
30'Ca. You could not take deeper than that i—I
timk that as the deepest that we have had. We have
had them drawing 21 or 26 it. There are 27 it, of
water on the her at full tides, and, il spring tides, up

10 30 or N ft.

3792. Too say that steamers paceed up the over to
the Verienn Busin, four nilles from Newry, where the
discharge takes place?—Xos, after being lightened in

the Lough, application you have to discharge all your 2711. Bo you assan you have to discharge all your 2711. It was not pool estable for below "Yes. 2712. It what pool estable for below "Yes. 2713. That is very senses "—Yes 2714. What equality of staff do you bring in in the year!—"From 22,000 to 25,000 toos. That is for our year!—"From 22,000 to 25,000 toos. That is for our

sen irs. prior to the war.

NIS That you bring into Newry!—Kes.

NIS How does that go cut from Newry!—By reflected the sent of the sent sent from the sent f

NET. You are menoring threator of Messra W. P. Redmond and Co. Ltd. 1—Yes. I have not had time to impace any written statement. I did not know until the mounts that he.

so magas any written interested. I did not know multi has mooning that the Onematice were pecial for at m. Newry. My evidence is preciseally abla life. Breakey has gurney de sear of difficulties as Mr. Breakey described in connection still vessels of \$600 stars. We have to discharge the ourgest in Carlington Long. We have to discharge the ourgest in Carlington Long. We have to discharge the ourgest in Carlington Long. We have to discharge the ourgest in Carlington Long. We have the discharge that the "Niebles Kesses." We can prefer brage in Limber at the Typless Kesses. We can prefer brage in Limber at the Limbert of the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in the Carlington of the Mr. Start have been described in t

as the small andings are concerned we can get them, but they are only small houts NUM. They can right up 1—Yes. NUM that depth of water for the small vossels 1— About 15 ft. They can only come music the lock rate, and we have to lighten them down to about 15 ft.

15 ft.

3750. What draft of water have you at Carlinghod
Lough L. Eefore the war we trued to get veneds drawning
18 or 19 ft. of water to come up to Victoria Basis. It
they were any deepor than that we would have to

as we have no deep water

My Field 3733. You think it is necessary that you should have equal facilities with Belliant to earry on your business? —Yes.

Chairman 3745 You are Engineer to the Harbour Trustees !-Yes, sig. 5744 Can you told the committee semething about the conditions of the count the Albert East down to Victoria Lock?—Yes The condition of the canal

general cargo along the canal to Portadown. Formerly we sent a good deal of moul by ransk.

3727 You don't do it now!—No.

3718 Is that because the canal bests are not quick

count is this powerse the canal beats are not quick enough, on became of the delay!—It is because of the composition. The expenses are so great that we are unable to compute favourably.

Mr Fedd. 3712 The absence of facilities here prevents yet from competing successfully with milities in Bellux and other centres I—Yes, and other centres I—Yes, and other from yes and therefore you want these importance out of the provision it is sainter of national coursed out. —Yes. We consider it a sainter of national

importance to give us the facilities we require

3721 I am suppresed that you cannot compete with Belfind, when you had your satils on the carnot 1...There as the trouble and expense of getting the corn to the

3722. In regard to the sending away, you had rather the advantage of Belfast I.—Yes 3723 The higher taking 88 tous of tealir is stopped allogather I—Yes. 3724. You don't send morthward at all !- No, not by lighter

NSISE You send by sull 5—Yes, a little to Portsdown NSS. If you would to Portsdown, why not send by major 5—The water traffic is so little that it is not

Mr. Bowrer S. Remmon, J.P., Managing Director of Messrs W. F. Redssood and Co., Timber Importors, Newty, called in ; and Examined 3754 Assuming that these facilities were given, and you in a position to say anything as to the possibility of the merchants and tradees of Novry being people to undertake to maintain and loop going the thing if it were established. "I don't see any reason why

3735 Have you heard any general expression of punces to that effect!-I don't knew that I have, but

3726 In your own personal case, you think it is puth possible that no objection would be raised to that!—I cannot assess that. that I—I cannot assert that.

NW I dot we have present commitment of any NW I dot was I present commitment of any NW I dot was I present commitment of the present contracts with the spinner I have beard privately or exceed that the trading community of thin port and the county would be quate willing to do that best to commy would be quate willing to do that best to contract the spinner of the present that we have been approximately a spinner of the present that we have presented. — Weld, I think the extra tealls that would be planed would be almost refinement to do the present the present that the present the present the present that the present that the present the present the present that the present that the present the present that the pres

Mr. Lindsay. 3738. Have you got a business up Balliast—Yes
3739. Did it may you at all to being timber three and
distribute it from there—He is a different business
altogether we have in Belliast. We don't sell stuff ecop' in cases. I was speaking of the disher required
for Movry. We had to keep vessels for three weeks,

der hereng. deschargeng. 3740. Did you being by rail from Balfant?—Yes 3741. Not by water!—No. Mr. Hudren

3043 I duju't catch exactly the figure that it cost you to being by Belfast rather than by water!—It cost about from 10s to 20s. a standard extra to take it

Mr. Vercery J. O'Council, Engineer to the Newry Harbour Trustees, called in; and Examined Chairmon-continued. at present from Albert Basin down to the Vactoria Lock is not sufficient for the boats that are going up. It as too narrow, and there are a great quantity of stooms falling from the sides of the banks into the

3745. Hes

25 September 1918.1 Mr. O'CONNELL.

3745 Has may effort been made to got these stones out?-They have been taken out from time to time. They have not, however, removed anything like the quantity that has fallen auto the bottom of the canal 3746. If you had to keep that exted in order, what would you do 1—The only means we have of keeping it in order in regard to the stone has been diving. The

Nove liston the bottom. They mark a particular place and we have that particular stretch cleaned. 3947 At that sets, you must get a good many stones out—We are removing a good may. One summer we removed about thirty toos \$7942. What is the bed, of the canal !—St is stonepetched down a good pertion of ri-at least. I

me 3749. Take the Victoria Lock, what water have you at there!—We have in the inner still of the lock

In test 3795 Does that mean that you can get in vessels drawing 18 let-1—No. Just at that particular point thece is 18 feet, but the draft dissuited from that pout on towards Newry. The general deaft from that to the old books is 15 feet, and it is less still coming to the town of Newry, so that the maximum in from 15 feet 3 inches to 15 feet 5 mother for a bord country. 375L is there less water three new than there need to be 1--I understand that there is The water level is still at the same height but the bottom of the cand is different with the nuterial falling in 3782 What is the scheme for remedying this !-- The proposed achieve is to deepen the river from beyond Warrenpoint up to the town of Newry, gring a depth at low water at ordinary spring tides of 11 feet By that means the canal from the Albert basin to Victhat motion too came trees the attention to act of use altegrater, but unmediately adjourng the Albert Resus at a intended to have a large boun so that wassels between 300 and 400 feet. a large basin so that wessels between 300 and 600 feet could turn round, and also to have a whasf or the east side of the basin about 900 feet lone, and have a compecture lock between this harm and the Albert Basin 930 feet long to enable vessels to pass from the river up to the Albert Bestin. By this means it was integrided 45th vessels of 5,000 term could come up to

e basin. 3753 What water have you got there!—At present? 3754 Yes?—In the river, at low water, we have nothing
NEE What has become of the old deep pool! There was no pool The basin I scoke of was the one alpoining the Albert Basm up at the town. The river

has to be despend up to that point, and the basin fermed large cough for large vessels, and that was to be connected with the Albert Basin by a lock 400 feet 3756 What is the estimated cost?--6364,000

3257. Sampore you did deepen the year there, do you think the water would scour it all right down along!-I diressy you might recure size diedging, but I think it would maintain theil pretty well.

3756 You think it would?-Yes I expert you would have some divelging to do, but I gon't think it would

3750 What is the flow of the river?-I am not sure

3760. I understand the history of this place has been that, with the exception of Mr Nimms, who in 1829 suggested the despening of the river, serve other engineer has been opposed to the La am not quite sure Will. That is the history of it, I think in 1829 Mr. Nimms wanted to deepen the river but other encapts derived that the best thing to be done was to have the canal I...I don't know 3762 If it was not leand satisfactory to decrea the Chairman-continued.

raver, could that canal be extended and deepened?--Tree; could that come or control and appending 3763. Yes 1-1 slow't think it could be deepened be come it is so marrow. It is about 60 ft. at its narrows toward pour it is not made it, owest pour. If you deepen it you must make it, side. That is the obstacle

(Continued

Mr. Field. 3764 Would the canal bear despecting?—I don't think it would as it is without widning it 3765 It would have to be mederated?—Yes

3066 There were no deedging facilities in 18291-Those was no steam dredging.
Charrson J I gather that in '48 you bought a st diedger for here and made a contract for £40,000.

3267. Have you a drefiger now, Mr. O'Connell !- No. 3768. And the exnal was never deedged in recent care!- No. not in any turn. Parts of it rould be 2003, and the canal was never unexpect in events. As at it was time. Parts of it could be sireigned. You could improve some parts of it, but you could improve some parts of it, but you could not make but yniproveness to suit they result. 2002, Could you design it of all with the ordinary design of the bug stimes at the botter—also booked dredger would not do, or the rection diseigner to the bug wholes would not do. The surtice alreager would not do, or the record manager — The surtice alreager would not do. 3970 Why have you get the pump 8—Owing to the magnity of water in the dry scasses. 3971 That come a let of manager—Yes, it is an

Mr. Lunk | Lt costs £1,000 some summers. Mr. Field | That could go a long way in doing the

Mr Lindson. 3372 Would it be possible, Mr. O'Connell, to get water from the Newry Baver higher up?—I am not quite saie of that. At the point above the military burneks the river and the canal are nearly the one 3975. What about higher up, again?—Higher up the river would be a higher level than the canal

3774 The river comes into the canal about two miles Mr. Lindson

5775. I gether, Mr. O'Conell, that the Albert Basic is connected with the inland particle I—Yes, 5776. Yes and you had no deedger!—We have not 5777. A certain amount of deedging has to be done ut the river below Victors. Lock!—There has been none done since the 584 scharm.
5778. The rever maintains (shelf!—Freen the Victoria STR, The rever maintains.)

torns Basin - X178. Down to deep-water point?-Yes-Mr. Wilson Fox.

3780 Are you peaponable for the maintenance of NML Can you tell me what is swent such NWS. Use you led! we what is spect such year on 17. I notice the total experience is short \$2,000. How such of that is for assistantiance \(^{1}\)—I cannot tell yee The Scientific year tell you. I have not the figures. NWS. Have you gone into any of these schemes for the improvement of the outer small \(^{1}\)—Only within the lost, few days. I have not looked into them very

3783 You are not able to give any estimate of any of the schemes !—It is really too big for me to get even a rough or timate in the time Mr. Hudan

3794 Here you gone carefully into this matter in ogerd to the necessary improvements required in the narrigation rate Newry?—Yes.

3725. And you are confident that the river project

3786 Fee

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Mr. Arrests D. Delar, u.s.t, whire out, Consulting Engineer to the Newty Harbour Trust, called in

3786 You are Committing Engineer to the Newry Harbour Trust !-- I san. Halter Trail—I am.

307. Can you tell us what you think of the possess.

307. Can you tell us what you think supplies and the possess of the possess.

407. Can you then you the possess of the possess o a rall. I have gene over the genuel and seen that it was generally learnile. As of the count and the sing point between Vectors look and allower flowers, I make seen the country of the c

climate where and as there is the transferring supply a very large part of the worker supply give our tile in the set of the part of the worker supply give our tile in the set of the second of the large part of the worker of the second of the large part of the second and has ensetly conformed to the occiliary river out. You have the deep water in the contro, and at the sides the vessels trail the white way. The storms of the pitching have worked their way down to the curve, and are a considerable chapter to sheps. Vessels for this canni have to be specially built to stand the There is also another point where the actual depth is only 14 ft. 6 lns., and unless that is completely shared the canal cannot be deepened.

attered the cental currol be deepened.

5788 Corld that be attered 1—Tex. It would run
to \$0,000 or \$5,000. You would have to cer and dry
the casal. Too could not gate around under it. At
recent that point governs the whole situation. Then
the canal, as you know, it confined between the river,
root, and railway. There is no room. You could not 3789. Is does not look very hopeful?-I don't think there is any hope for that canal at all. Traffic is

water level and the piace where is fiber over.

3900. Your visit in it in it if more valor is the got it must be by dredging the channel — Yes. With regard to that, I have been informed hist three in so dredging. He has called the property of the propert not filled in thousands of years up. The river cours from and there is a deep seem without any visible course. There must be some current. If has filled up to some extent, but at fill there is deep water there. 3001 Has there been any suggestion made as to making a hig wharf there!—I don't think so. There is very little fint ground available for the extension of wharlage, but for an oil depot there would be

Cheirman-continued. plenty. I suggested myself that a very light wharf there for discharging an oil vessel would be of great

NISC. In there any estimate for dredging the river one to there my estimate for enoughly 6th five from Newry to Warnersprint Is-No. 3703 If would be very expensive!—No. I don't think to. From Newry to the Vistoria Busin-to Doyle's Hele-the diedging thould not be an expensive is the chapped form of exceptation.

3794 About the Bar—is it manufaming itself!—I

beliers so. The charts for the last twenty years show the same countings. I think undoubtedly that it could be improved enomously. You have II it, al nerge.

376 It is a material thing, if you want a log vessel to come in, to have a place that they can come into at all times?—Yes

Mr. Wilren-Fox.

376 Have you seen any survey of the proposed channel—have any benngs been made—I—have not made my benngs, but I think bornup have been made. There is no indicators of rocks. 3507. You think as would be solely a dredging pro-position —You Mr. O'Coundi.

3788. There is only one place for about 10 to 30 chains that above any hardness. That is some dis-

3300 Do you think, Mn Delap, there should be no differently in bringing a 5,000 ton ship to the town by deadging f-No

Mr. Lindbeg 3800. If this channel were made to the town, would 3001. Would there be sufficient seom !- No. 380) Would there be sufficient agont - and American so volume of water that comes down.
3800 Are you familiar at all with the inland parts of the canal?—No Of course, I have looked at the

sections.
3803 Do you think this is a leastible project!—It is teasible. Of course, anything is feasible in engi-

tousible. Or course, segments needing. 1804 It is desirable—That is hardly for me to say. I would like to see it done. 1805 It would not affect the Bean lever down at Pertudosen—No. I don't thank so. 1806. There is plenty of water l—Yes, ample water My. Field.

3807. I take it that your opinion is that the present can't is the reason of the control of the present as it can't is unsatisfactory, and you would not recommend from a professional point of rise that money shruld be expended on it, and you would poster descenting the river?—No. I would neeled despenie. Chairman I Whose were those bornes taken in the

Mr. O'Canadill From Bayle's Hole up to the Aftert him Cornects; assess that many below?

Ratin Room, I You have not taken any below?

Mr. O'Connell No.

Mr. Pfeld I What is the history of Doyle?

Mr. O'Connell I don't hasw

Mr. Pfeld I to be like Prom MacCool—all over the

3808 If there is a good deal of rock and sand, Mr. Delap, it would be a much heaver proposition than deelegage and 1—Nex, enumerally. \$800 Three has not been any estimate made of the out III don't think so.

Mr. O'Connell | The estimate I gave includes the

Chairman | What is the figure? Mr. O'Consel | \$354,000 for the entire week

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Choroson] Do you know, Mr. O'Countil, how much of the river has got a rock bottom?

Mr. O'Connell) It would be, I suppose, 300 or 400 vards.

Charrence | What depth of water one you get over that at the present time? Mr. O'Cornell | Seven feet at low water Chairman 7 And at hogh water ?

3810. You are the Inland Inspector !-- Yes, sur, Sits. for are the inline inspector — yes, sir. I have been connected with the inland canals all my his.

NILL Will you tell us scorothing about the condition of the cenal. — The condition of the mind canal is. have 13 looks in the oanal. To develop the canal to nave to social in the earth. To develop the earth to sure larger beings and give a greater draft, egipt, locks should be devo neary with altograther from Goraghwood to the Earn near. That would entail a very heart sinking, up to 34 feet automit level. These would be to the Bann row. These would enter a very meany ankain, up to 34 feet automat level. These would be then five books remaining. Two of these should be done away with and substituted by larger lecks to facilitate the newer barges.

SH2 Has any selecte been drawn up about that !--No, sir. 50, sir. Sill Is this your own view b-Yes, it has been for years, and that would give an endless supply of water. The above sinking would give a draft of 8 feet and be 2 feet 6 makes under normal level of the Bann rover or Watercoupping, and it would drain miles of country that he new shames waste finishes one of country that he new shames waste finishes. at is now almost waste land 3814. How are the banks of the cenal !- Fairly good there in danger. They There is none of them in danger.

are all right. Mr. Hudson.

3815. In your opinion would the banks of the canal bear the absentions you suggest?—They should be made considerably water 3816. And strengthened !- They would not require io much strengthening.

2817. What is the estimated cost of the improvem
rou suggest!—That is miles beyond my capacity.

2618. You have not gone into that!—No, indeed.

Mr. Liedssy 3219 What you propose is something like a railway outing "-Yes SEE What is the land-is it hog!-Part of it is bog, but part of it is rich meadow which is partly fooded, 5621. Are the locks working reasonably well?-Fairly well.

Mr. O'Council | Eighteen test Mr. Gartlen, Solicitor. | Thus is the portion of the

The scheme of 1880 was on the same lines that we are Mr. Jawes B. Mccacuer, Inland Inspector of the Newry Trust Canal, called in ; and Examined. Mr. Londony-continued.

3852. There is not much delay an getting through !--No delay at all 3822. What headway have you get on the conal |--

3824. Is it your idea that a large scheme should be visites on new lexis i—nex.

2825 De you think that would be justified by the increase of traffer—Not extrally, but the improvement would be so great that it would be worth at.

2825 The improvement of the decided land 1—Yes.

2827 Have you say this -bee much hash would be

improved if your scenario were carried our —nongary it would affect up to a thousand acree, 3852. Which could be made productive!—Yes, Chairream J On behalf of the Sub-Committee I beg to think all the witnesses for the information they to thank all the witnesses for the information they have green as, and arabing as to got a very clear idea of the requirement of Newry.

Mr Felss O'Hoppe, Chairman of the Harbour Thusbes, I We thank you, set, and the other members of the Committee for the patient bearing they have given in. Newry requires deep water. If it she does not got it she will lose her position as a distribution

centres.
Chairman | We quite appreciate that.
Mr. H. J. McCowelle, Chairman of Newry Urban.
Council | I am very pleased that year Committee har
come to Newry, and on behalf of the people of the come to Neavy, and on behalf of the people of the town I be go entend to you a hearty wedcome. I trust that the ovidence that has been yet before you will that the ovidence that has been yet before you will also that the common the property will be stream-able to that town. One of the property will be stream guarantee regording the loss for 250,000, and I saw small sum to promote deep water to the town it will one a I wash to associate myself with all the evidence on. I wash to associate myself with all the evidence that has been put before you. It is profectly straight have got very good wadence showing the condition of things very fully.

(The Sitting then conducted)

*TWENTY-FIRST PUBLIC SITTING: THURSDAY, 20rd SEPTEMBER, 1918, At the Town Hall, Dundals, at 1230 p.m.

Mr Wilson Fox, M.P., Charman of the Select Committee

vision and co-ordination, and to ensure that such

Mr. Wm. Field, M.P.

Mr. W. A. Lenday, M.P. Mr. Matthew Keating, M.P. My Walter Hudson, M P. Mr. Pinlsp MocNulty, Secretary

SEE ARYHUR SHIRLEY BENN, M.P., IN THE CHAIR.

appointed a sub-committee, of which we are member

(harrones.) I would lake to explain why we have come have. On the 5th of last mouth, the House of Com-ments appointed a Select Committee for the purpose of

to investigate and report upon facilities for transport effected by the ports and cannis of Ireland; to make raggesterns lee their equipment and development; and to viait such places as they may consider necessary for to give as in reference to the transport facilities of

Mr. BIRLARD HARMA, J.P., Chairman, Dandalk Harboni Commissioners, called in 1 and Reammed

3839 You are Charman of the Dandalk Harbour Commission !-- I am Charmon of the Dandalk Harbour gateway for the imports and expects of a large part of feeders, arction impress and exports on a large part of feeders, metading the countries of Lorin, Monaghen, Grann, Formanagh and Letturn, and a considerable part of Meath and Armagh. As indicoting the graphical solvantage of Dundalk, I may mention that polwithstand graphical But studies of Darkery Company, and with standing that if commend the great perio of Dakhin, Bellows and Darry, has selected Dundalk as the port of unperior cond., raths, sleepers and all olsones of parkey replace, and has secured Parlamentary process and graves. overcome unsets the quays come under the ownership and control of the Harbour authorities. The only and hitherto manposable difficulty in the way of maderhitherto manporable difficulty on the way of mairre taking a solution of improvements that of masses. The Board has in the control of the property of the Almost a half of the an aboved 45,000 per assum the control of the control of the control of the to control of the control of the control of the boson of the control of the control of the control boson of the control of the con processed adopted by the Beard for urbanisates to the Perkinsensity Okismetas. Oring to the state of the over from the law invested shapping can at present only be conducted at most for two boars before and two boars after high water. If the waterway from the bur to the quary wave designed, so as to give a minimum depth of it for 6 in to 0 ft. 6 m. this would enable shapping to be conducted for aught harm out of the

newlve. Thus would mean lowering the present had of the raver by Sear fost, or the removal of, say, two milion tons of material. To do this with the plant now available would be an unpossible task, and the Commissioners, the requires years to such time is may be required to carry out the work, and obtained as a reasonable rate of success tools sum as may be re-quired to operate the plant, this sum to be reposit by striking final as may be agreed upon. The Harbour Commissioners would intern economical the purchase

3850 I understand that the method of duturbution in Dundalk is entirely, by and I—Yes, most of it 3831. Has any effort been made to run the realway line from the Greenere Railway to the Steam Pecket Company's when '1-1 don't think so According to the spinion of regressors, I think the quary would not bear

3832 The line did you down? Formerly it was laid, but whether they used it or not I cannot tell. 5833 The present loan is £35,000?-Yes-3834 In that the total amount originally harrowed !-

3835 What have you got in the way of sinking found towards the repayment #-925,000 3826 You have got that available !-- You.

3837. So you have only £19,000 standing against you to the present time!—Yes. 3838 You say, " If the wistorway from the bar to the canys were dradged so as to gave a minimum depth of 8 th 6 and to 9 ft 6 an," does that mean low water?

3539 What have you got at the bar at low water !--3845 How

Chairman-continued,

3840. How do you propos to deal with that ?-I think 2001 there of you propose to got there occurs the bar ... 301 What depth do you propose to get there occurs but bar ... 30 Williams, can engineer, will give evidence with regard to that. feare with regard to that.
3882 I pather that what you really want are Parliamentary powers and a loss — Yes.
3883. And that the Harboar Commissioners would do all the work if they get a lean at a reasonable rate of solecole and Parliamentary powers to enable them to do 11—Dat in milit.

Mr. Wilson-Fox.

3844 You want the loan of a plant!—Yes. 3945 Have you estimated what the amount of the loan you require would be?—No. It is only a bread

as reasonable grounds as possible.

3860 Have you formed even a rough cetumete!—No. 3907. Do you estimate that you would get more trade to the popt if the improvements you have in view were

cerried out i-Yes
X848 What class of trade do you consider you would secure!-The corn trade might be greatly increased and 3849 General curgo inwards and outwards i—Yes, and a great increase in the coal trade. Mr. Fuld.

Mr. Fridd

500 You have bosn Chairman of the Harbour Bound
for a number of years 1—Yes

500 Has the Bound during your tenuse of office
mode any attempt to exceeding types entire for any
mode any attempt to exceeding the distabilities that
mode any attempt to exceeding the control of the
mode and attempt to the control of the
mode and the control of the captar was in
the hards of the Marbour Bound things would be done
more aspectationly and botter. He and the control of
mode and the first the control of the captar was in
the hards of the Marbour Bound things would be done
more aspectationly and botter. We such that come here
more aspectations of an identification of the control here to arrange in advance with the purvale owners.

550. It is in on a fact that although you are a
Hantonir Authority you have no justistiction over the
quayage, and that may arrangement for consumer must
be made with perrate multivirials missed of with the
coognised Hantowar Authorities I—That is no
congrued Hantowar Authorities I—That is no
to the first your equipment that process ought to be
sought in the process of the Hantowar Communication.

missioners at possent, only in name?-That is quite

true.

3354 De you ogree with that?—Yes, and the Har-bear Coremostumen agree with it. That a cree of the boar Coremostumen agree with it. That a cree of the country of the country steep of the country of the country of the country of the country of the SSGS With regard to rathery tealties, of the Lection and North Western Company almost refers to grant inefficies to pressed corporat?—They give no familiate of the country of the or of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of the country of the country of the original country of the country of

we stone it miscauces to get shy facciness from team over for freig rg. They would not give the gazanatee which the other private owner gave. They would not give us the gazanatee necessary to do the designing because the gazanatee necessary to do the designing could not dredge unless we got a guarantee.

Mr. Davin J. Witziams, Engineer to Dundelk Harbour Commissioners, called in; and Examined. Charmen. Chairman-continued

3078 For are a member of the Institution of Mechanical Engineers, London !—Yes. 3880 And I understand was have been Resident Harbour Engineer of Dundalk for the rest ten years Yes, and I know its harborn intreasors as my life. I have prepared the outline of the cummaring personal administed in the statement of the Churran of 1 do. I have been personal administration of the contract of the contra

3885 Did the other owners give you that graventee t

And the London and North Western saftand t And the legical conclusion is that they dow's want traffe !-- You
want traffe !-- You
3359. Have the Great Northern any connection with

going to bride a wearly connecting, where we want and going (any) is 3, year spinson that if the proper training both the world be an invested of experts and imprets, and that all the surround of experts and imprets, and that all the surround of the spin of the surround of the surround

Mr. Realing

3862 Is it your opinion that Dundalk has suffered cannot come on removement cannot come on probability of estab-listing a control authority over the whole of the peris and instrume of Ireland—would that in your opinion be admished—We have not considered which at all, the little of the control o

would sake a great improvement. We have not, hos-ever, given this matter my consideration. 3994. The provide ownership of the quays is hamper-ing the state of the post-Logica. 3806. And your only semiely is to go to Parlament and get power.—Let 3800. This is a coatly procedure!—H nothing chosper can be recursed, it should be given.

can be secured, at should be done
3800. It would be donerable in your judgment to have

Mr. Lindsey,

3866. You say you horrowed a certain amount of menor, of which you owe £10,0001—Yes.
3860. Who did you horrow that from !—We remed No. You got it from no Government Department? 3071. Can you say if Dundelk at any time in the history of the part received State assistance?—I cannot

2872 Can anyone give us that information !- Some-2002 Con anyone give so that it can be seen in a con-one ann.
2013 You understand the describibly of having that information L-Yes. I unbordered no State assistance has been received at any time.
3574 How long is the Trust in existence?—Since

About the callege over the Greeners Connauty's 2075. About the callege over the Grassice Conjuny's line, linking up 8. Georgie's Quay with the Great Northern Bailway, do you consider that to be exceeded the complete of th

5878 Can anyone speak definitely about that !- Yes.

The spail ressaved anglet be compani

declarge plant. The equit respects apply the corrections by 160 pf plants, belong of a receiving table that any interpretation of the plants o

3883. In

Mr. WILLIAMS

[Continued.

Chairman-continued. 3883. Is it supposed that there would be a sufficient scor to keep it down!—You would not get sufficient scor to maintain it. There would have to be dredg-

ing kept up, but we would have a commitmable scour if the river were despend. This would influence the 3884. What draft of water do you propose ?-At pre sent only 2 feet 9 inches, and that at three-fourths or balf indes leaves about 7 feet 6 inches We would be

alls to get 11 feet ever the ler.

1885 Do you think that that depth would be satis-tectory as the case of the more modern ships !-- It would be a great benefit to the part. Mr. Lindson.

3886 Supposing you carried out this dredging scheme, what depth of water would you get at ordinary soring tubes !—It would give in about 52 feet at high **387. You think the suggested improvements would pive you ample water for any traffic you would be flowly to have !-- Yes.

Mr. Field

3888. Do I understand you to say that you have no some no i unsentend yet to say that yet have no modern dredger mutable to the requirements of the port?—No; we have not. We have a backet dredge working since 1876, and she would require a good overhands and passes and commissioners any likes of bying a section dredge that would enable them to dredge whetever required and reclaim land to They

have.

3890 That is one of year ideas t—Most decidedly.

3881 With report to the quay. I notice at is rather a speage daint—Vee.

3992 Is it year adas that year would make this quay into a straight line from one end to the other by extending it into the deep pertian of the rever through plant—Yea. James — Ten.

3895 It would enable vessels of a larger deaft to
come alongside and remain in comparative safety ?—

3894 You are putting in plans!—Yes 3896 You are giving us copies of the plans!—I can let you have ceptes of the proposed plant

MO. With superior to the designer, have you made any hard ofference in the designer, have you made any hard ofference in the designer to the Designer of the D Mr. Field.

do you consider that it is necessary to have the rail-ways linked up with the harbour !- Yes, it would be a

Mr Hudren 3500 Do I understand that you intend dredging feet deeper right up, meleding the London and

2000 Do I understone unit and formation and feed deeper register up. Including the London and American and Including the London and Motor and American and Including the London and Motor and Including the American Americ sect cost of material and labour.

3904 You have not formed an epinion?—No.
would be spactically impossible at present

Mr. Hudson-continued. 3606 With regard to the private-owned quays, are they held on loase to I unferstand they are freshelds excepting the Louisin and North-Western quay, and

excepting the Lordin with return research quay, and Jam not quere about that. Jato Blave you any extinate as to what they would out to take over?—No. JOG? You have not formed any estimate as to what they would be worth to the Harbour Commissioners to

take over !- No. take over T.—No. 2008 Do you think the owners would be reasonable? —Yee In fact, a great many of them are Harbour Commissioners and enzions to divelop the part. 3009 And they would be willing to let you have then at a fair cost!—Yee.

My Wilson-Fox.

3010 I think half a million tone is the figure you gave regarding the quantity of material to be taken out of the river!—Yes. 3011. Borease in a statement from the Harbour Commissioners they mentioned two million tensi—Yes 3913. The rest is to the bart—Yes.

3912 The rest is to the bar!—Yes.
3913 The capacity of the port would be determined by how seccessful the har dredging was !—Yes Charman

2024. You see Gard Engineer to the Great Northern Ballony Congoing. The Hardward Congress of the State of State autable centre for the distribution of supplies. When completed, it will be very moreon and up to dute. We are anyons to have the harbers deepened so as to allow a larger class of vessels to come in and out. As our sleeners come from the Baltie, Only small bests our sleeners come from the Baltie. answ a sarger cases of vector to come in and out. An our sleepers come from the Baltie. Only small bosts can come up now, and we have great difficulty in getting so small a boat to unfertake the long true. They are

3816 What are steamers bring your element from the Baltic - About 200 feet long-about 500 tags, or

3927 About 459 tons 5—They are small. 3938 Would you think of patting in a floating dock if you had sufficient water up 5—I think not. if you had sufficient water up!—I think not.
2019. You really want to see the harbour opened as
a to ite! in vessels up to 15 feet of water!—Yes. It
would mean a revenement affirement to us. We import to this particular place about \$5,000 tens of coal
and \$2,000 tens of other natherals and steems.
3320 You have imported?—We do import about
\$5,000 tens of coal.

Mr Wilses-Per. 3001. Now?-What was pre-war. 3002 I understand that there works you are conten-

You 3983 They are not for the general trade!—We shall being in a certain anscent of traffic 2004 I understand that the Act you get limited you about a meta-tank that the Act you get limited you are to get to the Steampeaket Company. We cannot go beyond that. That is the limit of our powers 3005 Yeu can use that section of the line for any purposes!—Yeu

3605 (Indicating a section of the map handed on by Fritzens, showing the works proposed to be corrued out by his company) What have you there—shout 300 feet of friendings—Xes, 300 or 400 feet.

3667. Here you any opinion as to the number of men that well be likely to be used at those new weeks?— There would not be many additional men. At present the week is bring done at great inconvenience.

26 September 1918.1 Mr. WILLIAMS

Mr. Hudson 3225 You propose when that now yard is completed to lay in your necessary railway lines down to it? Yes We shall go to the Steampacket Company's premises

2029 Your line would be coupled up with the pro-posed quays you mised to make !-- Yes.

Mr. Field obtained your Bill !-- About seven,

3332 You have fully made up your mind that you are going to use this as a kind of home for the supply of all the materials of the Great Northern I—You 3935. On account of Dandalk being the most control

port in regard to your line you will distribute all the materials from here!—Yes,

3939 I understand it is about eight years since you

3331 Did it take the milway company seven years to make up their mind about corruing out these improvements?—We had to acquire lairly, and the war

Chairman. 3942. Mr. Cooks, you are the General Manager of the not more than two hours after high water. The conscquence of this is that our setlings have to be versal fact that the bulk of our trade from Ireland is of a perchable character the limitations caused by the physical state of the port are a serious hindrance to the development of the natural trade of the port. I may

tying to the vect as mr as manuscrime, and emergency the countries of Louth Monaghan, Armagh, Cavan and Fermanagh. England is naturally the market for the proclose of this country, and it is shednishly essential that the quickest and most eccentrical mothed of transport should exist to just up the two sides case of the Harbour Commissioners I am aware of the financial and engineering limitations of the poet, but I should like to any that physically I see no reason wided the financial arrangements were all right, this part could be made into what might be called a half. a sittle commercial proposition to seep size pine price year at least three-quarties of every tide into The great advantages which would access from the port being brought up to date in this manner might be sum-marised under two brief headings, viz.:—

I The facility of sailing in er about a fixed 2. The use of larger and more commoditors heats. say that my company already pay somewhat more than

Mr. Field-continued. 3034. Your weeks are here at present?-They are and our chief stores.

3035 If this riors ambitious scheme is carried out. I take it that

I take it that your company would enter into an arrangement with the Harbour Commissioners to be engineer, and not in a position to say.

Jegs You are full of good intentions in that way

[Continue.

Would not that bring you traffic !- I am not a traffic

Mr. Lindsay 3637 I understand that if this scheme were carned out, you would let the local coal merchants land their traffe — You

trains — Los 3058. I thought you gave evidence that it was purely a private ione, and that the powers did not allow you to take evinnery traffic over it!—I are not quite surshout that. I may be wrong.

3600. It seems a rather limited part of user of the

railway !—I think we were limited, but I am not quite man. I would not like to capress a definite opinion Mr. S. J. Corns, General Manager of the Dandalk and Newry Steampacket Company, Ltd., called in ; and

Chairman-continued half of the total reverse, and if greater facilities were given to the trade of the port, and it was found gives to the trade of the port, and it was found recessary to increase the port charges, I do not be one recent represent the port company would eligit to be one recent represent or and I feel wire that, given the cartin lander, and I feel wire that, given the initial feelfly is eating from the Government upplying the means for deforging, the port would be self-supporting. As it is, the plant of the Mirrhous the contract of th plant for such time as may be necessary to transfern, the waterway from what it is at present to what might

to termine a han-some port.

3941. You say that all your boats are specially built
for the trade 5—Yes.

3942 To what drait of water 5—To a maximum of
about 14 feet

about 14 feet. 2003 If these was more water, would its mean that you would bring higger boats—Yes. They are more committee work, and we would get on a larger trade 2004. It there sufficient trade here to justify higger boats—I are nather boding to the finite. For the boats—I are nather boding to the finite. For the world was the sufficient trade in the summary of the finite way that the devolution of the finite with the devolution of the finite with the devolution of the finite property of the finite

the whole our trade has mirreased. 3047 What do you bring over here as a yele!— Breadstaffs and loading stuffs—ficur, policed, busic

Breatenfis and recting sturn—near, possers, con-duct and agreed tend implements. 3648 A great field these are distributed inland for You. We serve right away to Ennskillen, 60 miles. 3040. What do you export 1. Our main export is Inv stockstock. Lest year we carried account assessed castile, store castile, above, iscale, gents, page and 2000 Did you carry any dead stock 1-No, nothing

2000 Dod you corry my dead steek 1—20e, nothing of that seri has ever been altempted here. 2001 Do you think that the increase in agriculture in the leadily wently justify you in the expectation of getting higher earness of you had more water!—Tex-The main points that strikes one is, if we had deep water into the gen to enable use to said. out of 12, one could get a more fixed but a sail, say, 2 hours out of 12, one could get a more fixed hour of saffing and that would facilitate all kinds of trade. It is someware currents as present. We have a beat saming at two o'clock in the alterneces. Live stock corns from a country fair, and probably it means their being held over until the following saffing. 26 September 1918 l

3058 Have you made any effort to get a milroad to your whareas —I was present at the Inquiry on the Great Nerthins Railway Bill, and I am able to answer a question that was asked of Mr. Campson that the so as to another it to entry gunzard merchandus over their lime. Comming so the storm protect and or it, while there is arthornly also for a line into our pressure, asching has been agreed upon between the two com-poses and occurring that out, and, or long as the port is a trial case, it don't think there would be much subtry in it, become the ensence of rathery comming.

cation is that you must have a regular serves, and I am alread it would be putting too much on the Groat Northern to reak down trains at all sorts of hours to sent integrals sullings. 3653 You could have your tracks down there!

Yes. 3894. And discharge your goods into them I—Yes. It was thinking more of the line stock. I say that that hangs onlarely on the question of the waterway. Get your waterway all right and your other communica-

tions will leave.
3055 Has any effort been made to get that line again
no to the London and North-Western 1—There are payment difficulties in the way there. It would mean ie leg thing is the water in the siver 3956. If you got water in the Harbour you would

have to have better rulway consumestions !—That will be provided by the new spar to the castern end of our pessions. The west end would be a physical im-position;

Mr Lindson 2057 Has your pessenger traffic increased, or are a carrying passengers 1—Not at present. 3338 You did before the war 1—Yea. We were one

of the poets that were closed when the passwort system of the poets that were closed when the passaper system came out I may say that I have deen kreated with the mest abominately maslance by the Home Office. I wisk I could get held of geneous from the Home Office to tell them what I think about them. Mr. Field-I Wing don't you write to the papers

Mr Lindsoy. 2092 You trade to Nowry as well!—ies.
3200 If they had deeper water up to Nowry would
ye increase year satings!—Yes. MI I say of Dunnotine soundly to Nowry. They are two fire

yes messate jeur sailings!—Yes. All I say of Duniella spines optoly to Newry. They are two the appreciated districts, and I think there is a great Section of the sail of the section of t

Newty, and I think we even build an a duly saling from Dundalk and three suilings in the week from Newty. 2663 What were your salings to Androsan before the war—Once a week we made a round trip. 2664 B was one of your small ownels that went!—

305 You think the expenditure of money in this science would be a sound commercial proposition !-

3056. You have already stated that, in your judg-ment, the number of sallings could be considerably increased?—Yea. mreeshed?—Yes.
3957 And your company would consider symptothetically any extra burshin that might be put on them?—We should reckon to have to pay fee the facilities we should get.
3968. You bighers it would be possible to mernass your trade?-You.

your trade i—You.
M66 And meschanding from this side is urgently
required in England i—You.
M70. And some of it is of a very perishable characlar i—You from the trading between England and Induced is
very reach limited owing to the absence of Institutes i
—It was

Mr. Cocks.

Mr. Fold. over 1 unstantiand your fam is here for the last 40 case in Yes 3003. And that the carriage of live stock is the principal rism of your transactions?—Yes, in our traillo ten Ireland.

from Issland.
360 I think you said you carried 133,000 annuals
last year—That is so.
370. Whan his soled are delayed, what is the nature
of the scormodition you have got—when you lose a
370. That his soled are delayed, what is the nature
of the scormodition you have got—when you lose a
370. I have had been a soled to the latter
of the property we sing stall-del cuttle.
370. To by on eath leve and of railway communication personal to your market—No.
370. With neglect to the pursately owned quays,

would you be in favour of handing them over to the

I would ped line than to ge to the Hanteer Granatie-cienter. We see grate salte to amongs than correlves. I have no objection to the other grang over to the three ped control of the seed and the seed of the photo in good order and it is well assistanced. I deaft want anything also. I went the rever all tight, 3699 Private insects must always, so moke for public consumence. Frem the matical point of view, to you believe that the development of this post would for you believe that the development of this post would

very emphatically, that the question of teams? is of the gradest importance—of national maperizace. 3600 There is no new predicting saything unless you can easy it to the market—No Modi. You would have a larger export and import trade here, if the unprovements which have been agg-getted here were carried out—Yes.

Mr. Wilson-Fox.

N. Weisen-Fox.

No. Wei 3085 Supposing this improvement were carried out, the annual charge for dredging would not be less?—

No.

3987. We are told that the cost of carrying out this
drodging is going to be something like £200,0001...3d,
a tun in what we have always heard the cost world

he, not in.
3888 Do you believe that the increase in trade would give a revenue safficient to meet the interest and Sink-ing Fund on £100,000?—I don't. I would not be in favour of such a log school as that. I was thinking frivour of such a, lig schome as that I was thusking of strenking like \$20,000 or \$20,000, and I do thusk that of the strenking like \$20,000 or \$20,000, and I do thusk that of the strenking like the strenking of the strenking the recent of \$2,000 into \$20,000 or \$

3991 You would contemplate an income of £10,000 Mr Hudern

3062. You are only giving a limited support to the present achieve full are afroid the scheme has not out present acknowled—In at string the acknowledge per of the best many late of the string that of which. Ballouing the best in the string that of which. Ballouing bound —Test 1, and a Halkeer Commenciate.

3600 Reg von welch for this the commenciate in the string of the string of the which had not the the commenciate in the string of the write that see to be correct out as negligible—In an a which shade see the course out as negligible—In an a which shade see the course out as negligible—In an a which shade see that the string of the work be done out to be supported by the string of the work be done out as present in the string of the string

Meg. You

Mr. William Twinin, Coal Merchant, Danielk, called in; and Examined Chairman

3007. You are a coal murchant, and have been uni-mately connected with the import trude of Dundalk for forty years "Yes, are 3608. You agree with what has been said as to the obstaclor to chippeng presented by the present condi-

Chairman-continued Owing to the lack of sidings, and to the fact that no mechanical power is provided for handling winger, there is at present much nunceessary cost and delay in disabilitying coal steamen. This difficulty is even greater at the quays (other than the Lorden and North Wooden Railway Company 3), even to these being only a angle railway line thereon. No improve being only a angle rations that thereon. No impress-ment of the quarty, bothes or inchantical equipment can be lessed for until the harbour authority has acquired to lessed for until the harbour authority has acquired ander outflown control and inchangement. I think this ariser outflown control and inchangement. I think this port is settingly behand the three A m.Mr. Failed and, if is subdillarian, I den't think its would cost any of the control of the control of the control of the 380. You don't him to the products. ang like fill(1999 to do the dredging 3899. You don't think it would take so much!—No. 4000. It is really a matter for emphases!—Yea

Mr. GREEZES P. GERNZOV, Managing Director of the firm of Musea. B O'Routke and Os., Larrited, Millen and Gora Marchauts, Impectors and Exporters of Grain at Dandalk, and Member of Dandalk Harbour Board, called in; and Examined.

6001 You have a statement presented k-Yea, sir. I am of opinion that of the channel were sufficiently 7 to see and coe line of rath me available for the discharge and and the time or ream no available for the unemarge and loading of a vessel. Such delays, particularly under present conditions, mean unaccessary superse and greatly hinder the expansion of the honores of the

4003 What size ressel do you bring in 1-Abent 300 done
4955 Do you copect to bring in larger vessels 1—We would like to be in a position to bring in occasionally seemed the form the process describing up to 17 feet.
4904 Tours is no engagestion, in these, in this present scheme of group you 17 feet of water 1—II think that this is what if worked cert—17 to 18 feet at high water, for the contract of the process of the contract of the process of the contract of the process 2001 is a supering taken.

2005 And you think you can got aleanners to come
in drawing If set and to be on a mid bettern?—If
the bettern is made and, I don't see any difficulty.

2005 You have also found some difficulty in connec-

fine with crapes 1—Yes
4007. What do you suggest about that? That is a matter for the harbour nuthorities !- Yes. matter for the harbour authorities !- Yos. There is only one came at some of the wharvas, and there is dalay. You can only get the value of the Hamill stones at a time.

4000 You are in agreement with what Mr Hamill said 1—fee. I believe there is a great fature before the part for it believe the gram—that trade outside the part for its dispring of gram—that trade outside destroped. The immeriant here produces encourage.

consisting of grain.

4000 Can you get that down by rail - New We think that we are not treated, quite fartly by the Leedon and North Western Batkery Company in chapping us 6d per ion for the nee of their rails for 30 years. The Great Newthern Railway Company supply the wagron, and the Leedon and North Western Railway chappens alongs of the Service of the North Western Railway the wagron, and the Leedon and North Western Railway the wagron, and the Leedon and North Western Railway the wagron of the North Western Railway the Western Railway quantities of grain.

Mr. Fold 4010. Have you had a difficulty many times in obtaining a borth for your result owing to the persule ownership of the quaysh-Yes I have had to leave not got a berth.

Oli. About sulsesy facilities. You cannot handle your corn imports or expects unless better railway facilities are supplied by the London and North Wes-tern Company 1—Quije 60.

4018 Do you think the Loudon and North Wester Company are giving you fair play in this metter?—They give us very law facilities—practically none. Mr Realing. 4813 Do you agree with the witness who said that be thought thus solvens was too ambittons to be carried out?—No, arr. I don't consider it is too ambitious.

I fear that the estmate as given by the engineer is somewhat engineeries. I fear that he made his only culation on our obsolete plant. 4014 Supposing his calculations are correct, do you think it would be to the national interest to carry out the scheme !—Is would be in the national interest to the actions rest worst no ... spend £100,000 on this port The hinterland behind

here is very rich, and thus is the natural outlet to the chief English markets. 4015 £3,000 a year would be the increase in revenue of the port, according to the writness I have referred to i-d believe the marries would be Joseph am sure that is our own case we would more than louble our trade. Speaking for myself, I am substict that we could double our trade if we were given proper

Institute, 600 In your judgment, this improvement ought to be eaterned out not only to meet present needs, but future dressponents T—us. It would be a short-suplent policy to book only to present-day requirements, and off II is a very satisfactory thang that this poet in 500 II is a very satisfactory thang that this poet in 500 II is a very satisfactory thang that this poet in 500 II is a few sensions—We have required and the sensions—We don't work it ow 4016 The question in your mind is to provide extra feedstaffs for the market in England I-Quito so

Mr Lundson. 4019 What about the toil charged by the London and North-Western I.—It is charged to us.

4020 Do Blory said you am invoice—I—Yes

4021 Fee 300 yards !—Yes That is fee grain. I don't know what the charges on the other goods are. 4022 You can only apeak of your own trade !- Yes

Mr Proxes Carley Magainers, J.P., D.L., Director of Macardle, Moore and Co., Ltd., the Dandalk Brewery, Gherman of the Dundalk and Newry Seam Parket Company, and Nicaber of the Dundalk Hardwar Board, called m; and Kamand Cheirman,

4565 You cadone the evolution that has been given by Mr. Cocks — Yes. I would like to point out to the Committee that Dundalk was the first district on Irsland that recognised the zecessity of increased tillage.

Chairman-contamed. County Louth is a very highly cultivated county, and

behave if the contemplated improvements are carried out the natural development of the port would necessipany would be glad to meet the demand. With the motern scarcity of timber for the building of wagons, the probable high cost of coal for a considerable time after the war, and the high level which labour had resched, it seems to me that, in order to concesso, it and the second of the second o

insums to recognize the necessity or inseressed food, and this whole country is tilled to an encomess extent. All this land round here is good enough to be a market garden. You know that you over us 2565,000,000. 4224.5. I don't !—The Government does. That is a

Mr. Hudsen.

4026 I gather from your evidence that your opinion is that if this achimo is carried out it will be a business 4027. You are Chairman of the Dundalk and Newry

Sjeam Packet Company !-- Yes Chairman.

4036. You are a stoumship owner and coal merchant took are a meaning representation of interests in the period of the peri I am a hab a rarrour community to be developed there should be better facilities for heading and dispatch. The despening of the navigable channel will involve the decrease of the beeths, which at present cannot be dredged, as to make that operation safe it would be accountly to jells and extend the quay frontage, a work which the putvate owners do not see their way to undertale. Mechanical discharge of greater capacity and apod should be provided, as well as electric or other machanical hardege for handling wagons on the quar-The Commissioners have come to the conclusion that the only means of bringing about these improvements will be for the Harbour Trust to acquire the owner-

Mr. Hudsen-continued 4063 Are you in favour of the Harbour Commis-4003 Are you in Involg of the Harmour commi-sioners being the only suthority in the post I—Yea. 4009 I understand that you are pressing for a daily staling because of the fact that a large amount of your enium; occurse of the rac trux a large arrival of your tradic as of a particular character?—You. 6039. I may take it from you that you thereughly support this scheme as put forward, and that you would prefer it was contred out of the earliest possible trace?

Mr. Field

4001. You regard this improvement as a sound com-mercial proposition that would pay f—I think as a per-fectly plann to suppledy. Too have only to look at this line of distribution and take all the towns along the railway down to Remedialien and so Ballythancos. It is obvious that Dandalk is a fine centre for distribution if properly developed. Ser John Aspinall, of the Lanceshire and Yorkakire Ballway Company, when he care place the possibilities were extraordinary. here were carried out it would be useful to the country and to England as well i—Undoubtelly, you cannot get a house for love or money in Dundalk. This district

a looking up very much Mr. Lindsoy. 4935 Would you suggest a free grant to a town like Dundalk f.—Yes, to get back some of our own I have no objection to any other piace getting a fair share if we get a fair share here in Dundaly.

Chairman 4034.5 On we have any idea as to what the dredging cold amount to I—You. We will send of un a less would amount to !- You. Choireses,] It is rather important. My 'Hamil' I We do! not go into details.

Mr. Samura Locumorox, J.P., Steamship Owner, Oad Merchant and Harbour Commissioner, called in; and Kramined.

Chairman-continued. ship of the quays, and as a shipper, as well as a Commissioner, I agree that this would meet the existing improvements now suggested can be carried out the coal import trade of Dendalk can very largely be increased.

4037. You have heard all the evidence that has been gaven ?-Yea. 4038. And do you agree with it !-- Yes . If we had more water and more facilities we could develop the

4039 You believe that the coal trade could be in-creased bare!--I do and that we could sell our coals

(The Sitting then concluded)

TWENTY-SECOND PUBLIC SITTING: THURSDAY, 26TH SEPTEMBER, 1818, At the Mayoralty House, Drogheda, at 4.15 p.m.

Mr. Wilson Fox, M.P., Chairman of Select Committee. Mr. William Folds, M.P. Mr W A. Lindsay, M.P. Mr Matthew Keating, M.P. Mn Walter Hudson, M.P.

Mr. Perlip MacNuley, Secretary, See ARTHUR SHIBLEY BENN, M.P., IN THE CHAIR.

Cheirman May I may first of all why the Shi-Committee is Barri, on the 8th of list month the House of Committee appropriate a Sakest Committee for the purpose of consolering what steps, if any, it is the purpose of consolering what steps, if any, it is latilities for transport within the United Kingdom is some efficient repersions and oc-celebration, and to crossre that such developments and improvements the stability of the stational consolering the stational through the stational consolering the stational con-

we are stratefully to invaligate and report upon Earlile-Belliti, it make suggested to the born cuprasses and development, and to vest such places as they may conside assessays for this purpose. We have visible a namely of jords, and we have now come to Despitch on the constraint of the constraint of the constraint port facilities and suggestoms as to their imprenent, in order that we may be in a pession to report to over Maxim Committee at the beginning of next month.

we are members, to investigate and report upon facili-

Mr. W. T. SKEPELSONIS, J.P., Hayor of Drogheda, representing the Oseparation and Harbour Commissionus of Drogheda, called in; and Examined.

1600. You have a informer to real-to-free at 1600 than the half of the control of

had been exercit and the BID pround through Nation, and the sour event of agriculture flows used and, in the low of very strong agriculture flows used and the source of t had been secured and the Bill passed through Paris canal write ingroved as augusted. If the facilities in-dicated were provided important established indu-tives in Drogheda would develop considerably. All our industries are hardicapped for want of milway connec-Users a Boules's world design annihology. Offer many and rather scatters in the Marine and many and rather scatters in the Marine and many and rather scatters in the Marine and it cally one obtable); the insufficiency of water in the river powerts the invocated ordinary cargoes of make, the unsilest of which should be 2,000 tons, which weald require 18 feet of water. Only steamers of 400

26 September 1918.] Mr. SEESFINGTON.

over the temperature of the control And the second of the second o

ing at Slane, formerly used as a commill, is now

Chairman. 4M1 I understand you are Engineer to the Depart-ment of Agriculture and Technical Instruction for Ireland — Yes. (992) And you are Consilting Engineer to the Desgheds Harbour Boards—I am not fully so, but I My sec-

contract sections and the first state of the section is a section in the case of the section in the section is the section in the section is set of the section was as rathy state. The section is set of the section was a section set of the section in the section in the section in the section is set of the section in the section in the section is section in the section in the section in the section is section in the section is section in the section is section in the section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in the section is section in the section in

(Continued)

Chairman-continued

being converted into a flax scatching mill to deal with the development of the flax industry. The improve-yout of the casel—there is a connection to it from your at the casal—there is a connection to it free the mill—could be of great service to has see at dearty, or industry at a manufactor of the second country at a manufactor of the second country at a same of the second country and the second country at a second country at the second c account and more year to the root statistics in Noville to the well purpose that he from onto twelve boars, and because of this the board selectricates To, per lead because of this the board selectricates To, per lead to the selectricate to the per lead to the selectricate to the per lead to the selectricate to the selectric

the channel or 0,000 tons would be constructed in the channel of the tire were deepered and straight-ened Some thousands of hards would alternately had employeess in the shapefulfing yard if the year were improved. Various efforts by the local bodies to bring about an improvement have been quescensial). Gorermonest grants have been made to state theireles team did not offer nearly so much prospect of return for the outlay. The trade of the bown and district law sufficed. The pupulation has gone down, and the trade of the port has declined in a marked degree. More chants have not boon able to complete with district, chants have not born able to compute with district possessing grower facilities, and consequently their rands has been diverted. I trust the anal-committee will come to be continuous, when the sub-committee will come to be continuous, which are the continuous partial base to continuous, which are the continuous and grate has been made out for the development of this district, and the flay will recommend that and State assistance shall be grown as well place m in a post-session of the continuous and the continuous and the district of the continuous and the continuous and of the trule with districts from which we are now ent to give such detailed information as the subcommittee may ask for.

Chelyman] We are much obliged to you for your

M. Cranzis Deace Onivin, B.A.I., Milnet C.E., Engineer to the Department of Agriculture and Technological Instruction for Ireland, and sensetine Engineer to the Original Efficiency South Commission of Commissi

Chairman-continued

design and construction of harbours and other works chiefly for the development of statectes by the Depar-ment and Board. I have come into touch with Depards. Harbour in 1997, when the local authorities the Department had with markedly the session of the numerous early possible improve-ment of Drophels on a port, and have clarified several schemes desired with fit smaller queue for the clarified scheme from with a dotal morely with the percentage of destrocation of emission of the confinition cutting on destrocation of emission of the confinition cutting on the confinition of the confinition cutting on the confinition of the confinition cutting on the confinition of the proof of the development of the confinition of the proof of its development in soons unmoverely [6, 2.1.2] 26 September 1918.)

(Rairman-continued.

Mr. OLIVER. Chairmon-continue

Out to Control out to the property of the control o so the sos, and leaved dond frow 10 odder so negotiate a very faither invert at the entrance to the river obstant). Comment on this description of the entrance is unconstitution. However, the two so the chains in a saying that the constitution of where the same half weather in the art belts being a superior of subsection of the same half weather in the same half was a superior of subsection of subsec of cide, and in had weather at or near high water at least, so as to seach salety made the river, with the 48386, is not use Bleuras course to our river. In cases as channel strength out to sea on the boot possible time apparently cristed at one time. (3) That during the whole period under review-f., since the corte fearing walls were constructed—the river was working to The state of the s

The material is mad and sand, easily dealt with by The halorest is read and said, comy dealt wan by a backet or gard deelege, and the pre-west estimate has a channal of 99 feet bottom writh, with a depth of 12 feet at low water of spring 4560, was 452,000. No definite estimate was made of the cost of gays or decimine estimate was made of the cost of gays or decimine and the spring of the cost of gays or decimine and the spring of the cost of gays or decimine, anything from £10,000 or upwards might hum. doolings, anything from \$10,000 or upwards might have been spanie on their as the need arese. Certainly that sum at least world have been seeded to heave the state of the sta Northern mann line to the quary for Eli (000 exclusion of legal costs and provision of lend, which about n is combined would have been small; possibly (260,000 to combined would have been small; possibly (260,000 to combined would have been small; possibly (260,000 to combined would have been small; possibly combined to the province of the province the channel up to the extral to give a minimum steph of 6 feet at low tide, and the provision of a soliditional clock to rathe heaps to the emissing look, and which they can now only fixed at high water feet with the secon that the pra-war estimate to the tending to with the secon that the pra-war estimate for the two items casential if the port is to continue working via items associal if the port is to confine overlang-over the unprovement of the bir and previous of railway accounted discoverable production of the pro-accounted discoverably found scheme, embracing the above, with the ingressment of the main channel and above, with the ingressment of the main channel and in every, the extension was 270,000, when the address the complete of the contract of the confine of the railways of the confine of the confine of the confine and the confine of the confine of the confine of the confine the confine of the relation of these figures to flows which must be put forward after the var is a matter of outpointer. At larges prisen of the expanishers at however, in respect of dwelgage, at these wides perhaps will be less affected of dwelgage, at these wides perhaps of the relative connec-tion between Mellings and form of a railway connec-tion between Mellings and the translation of traffic on the connection of the connection of the con-cept with the anyone with some lexer-lessing, and on-only any that to anyone with some lexer-lessing, and on-confliction, and who therein and a Meschi, Want-outh and the connection of the connection between Design and the content parket years at the between Design and the content parket years at the

4046. At the present time what depth of water hire you got!—At present there is about 19 feet of high water spring fides and about 17 feet at high water on many tokes in the river and about a foot lime on the 4048. No vessels drawing more than 18 fort can come up t- No, except at spring tides.

4056 At spring tides what have you got?-About 35 feet maximum. 4047 When result come up to Droghoda have they

got to be agreened—the ago of the design of the Australia of the Australia

Chairman.

4050. One you tell us snything about the canal, Mr. Oliver!—The canal at present ends about two males above the town. From the axeal to the town, also to above the form. Free the exact is the form, since to the point where yet one sitting is a swrigation which is only proteined at high water. The river print down could be the proteined of each the small death of the count heats. We received of each the small death of the to such an extent as to give 4 feet of wider up to the extractor of the count is all takings of the tigs. The extractor is just at the top of the didd nature. What we would be the country of the count there is only recer whose mere, you causes go up. We propose to dredge up a narrow channel. The main difficulty is that the still of the lowest look is above the level of the water except at high scaler, and above the level of the water except at high scaler, and above the love or the water encope at high water, and I propose to insert another lock at a lower level to drop boals to the lovel of the permanent welcowary 466i. What traffic is curried on the canal at the present time — I am not in a position to give evidence

4152 Can

16 September 1918. (Anirmon—continued, 4002. Can you tell us something about the radway communications—In what sense,

As connected with the quay?-Yes. the radway is estuated on the level of the herige. no mare than a mile from the station down to the low-lovel bridge down to the quays. The bettha of the cross-Channel boots are here beside you. There m no level bridge down to the garye. The bestha of the consolitational boost are here bearies you. There is no commissionable boost some here bearies you. There is no consolitation between the form and the river and to railway, eacely up the full by the rand to the railway station. The proposets put forward were that there should be a achieve by which salivary realing stock should be good over alreasyste the gray. The should be given the proposed of the gray The should be given as the proposed of the gray The should be given to be gi schedule which I have some on the northern side of the rivertion alone was one on the northern side of the river. It came off a little on the Dandalk side of the giver, and came on to the quay under the bridge, came ager the road at the bridge, and then dropped on to seer the road at the headys, and then deopped on to the level of the quays. I move use the place. Another scheme was per forward for connection with the Manth line, which would have broken off the branch line about two miles out of the Boyne Valley, but its distance to the jentoton from the torm was not almost imagenable difficulty. The most it think, I also follow for the cust of way relation in that the more state of the con-

wave elements that the sum of £15,000 for the cent of contractions about of a connections from the Grant Noethern name line to the quarts in an approximate larger at which a ruleway scheme is othered by the gard at the ruleway scheme is othered by the Noethern to do 11—To do at themselves? 4665 Kai—1—an adrask score of the other gentlement most give you that information, has I believe as I think that at that due there were neglective between think that at that time there were negativened by the Mr. Murphy and the railway company, but at the moment they were not in a position to take up the matter. I don't think they have ever offered to do it

cautier. I don't thinks skep have ever offered to do vi-of their own, so far so I know.

5059 No negotiations have taken place lately with them I.-No. Pier some preser past no snove has been made in the matter at all, so far as I know.

5057, Bragheda regards it as rather vital to get this rathery connection i.—Re.

Mr. Hudson

I know that Mr. Murphy effected to finance and to con-struct, for a certain zero of money, a certain line, and that that line was accepted at the time as being more or less faxtly adequate, and, from what Plance of Mr. Murphy, I have not the slightest doubt the scheme was a sound one. I am aware these were difficulties as to the gradients and that the Greek Northern eightness. to gratients and that the trees Northern engineers objected to the gradients. I am only talking to some extent from hearsty. That scheme, I understand, was nodded and something added to it to provide for the treessary improvement in these gradients. —4002 Cm you my why this obsens full through I—

No. 4663 Would the Harbert Board be prepared to take up the scheme steelf, to build the universe and own it?

—I den't know the local unever on the matter. The Mayer I We are not in a position to de that.

Mr. Hudson 4054. The Harbour Commissioners want the railway,

Oliver - Yes 4056 But you don't know whether they would under-take at or not! - They went it. They look on it as an store of recently.

4666. Would they be prepared to take the scheme in hand or do they want the railway company to take it in hand.—That question I could not answer. You must ask one of the Harbour Commissions. I don't know enough of their financial position to exprese an

Mr. Hudson-continued. 4007 We will leave it there. It was stated, I think, in evidence that, owing to the Lancachtre and York-shire Railway Company and the London and North Western Railway Company posting their interests that the port had been left surrowhat derelict!—I heard 4068. Do you know anything shout that i-No.

Mr. Fidd.

4060. I understand you are acting proceedly as Engineer to the post?—I am noting as Commising Engineer in this matter. I am not concerned in the ordering or management of the port 4070. Yea say the bar must be deepened first 1—Yea, 4071. There is a sharp point in the river!—Yea, I n's think that is of outernal mapricance.

4072. You think the deepening of the river is of material importance?—You. For any port to be a practical cross-Channel port, it should be non-tidal, or

very nearly so.

4975 And in addition to that, it should have a rail-way connection!—Yes

way composing h—Yes 4974 is chore a dry dock in this pertl—No. 4976. Or a graving dock 1—No. 4976 Neither one not the other 1—No. 4977 You are connected with the Department of Agricollars and the Department takes a great interest in diskones 1—Yes

4008. Are there any facilities here for fishing boots? 4079. Have you had many fishing boats coming here! sum: Invey you had many naming score coming larged — I don't knew the place as all it is connection with fisheries, but there is no quastient that the opening of the bar would provide a very much needed harboar of refuge for fishing boats which does not exist between theyth and Dundalli.

Howth and Dunylais.

4080. Howth as not a harbour of refuge?...There is no hurbers of refuge slong this coast. With such a channel across the ber as I process motor boats could. practically, enter here at any time and in any weather 4081 As an official of the Department you are of opinion that these supprovements are essential?

Charrens I Mr. Oliver is not here as an official of

the Department.

Without I I cannot give any expression of opinion on behalf of the Department. Mr. Picts.

4082. In your present position as consulting engineer for the time being you are in favour of all these improvements?—Emphatically 463.4 And in your opinion they are necessary for the development of the port 1-Yes. If the improve-nant of transit between the two countries is a matter

ment of transit between the 140 countries is a matter if importance, then most emphatically I say these inprovenients are necessary.

Mr. Field | That is all I wank. Mr. Lindsoy. 4985 Do you know much about the Beyne Canal Navigation 3-No, very little indeed. The Bayne Navi-

Mr. Field.

4986 Is it dead !— I magnes it is dead at the pre-sent moment. I know some attempt was made to respect to under good anestes, but I rather think they had not eneugh capital, possibly. Mr. Lindsoy 4087. Someone is Navaz, it is said, get hold of the navigation!—The Boyne Navagation went into liqui-

dation some years ago, and the concern was purchased by an individual on Navan. ay an marriatial in Navan. 4088 This company that event into Equidation took over the navigation from the Econd of Works?—I don't think so. I think it was a navigation comdon't think is. I think is was a navigation cour-party which was a stateleyer compared. We will also a stateleyer compared. We will be a stateleyer compared. We will be a stateley compared to the stateley of the compared and proposed a function of the state of the stateleyer and also, it amount as the state obscurs and the cheaper, and, also, it amount as the state obscurs and the cheaper, and, also, it is a mount of the state changes and the state change of th

4990 This

26 Sentember 1918 l

My OLYER.

Mr. Lindsty-continued.

4090 This Boyne navigation is a short navigation of about fourteen miles!—Yes. If you have a non-tidal navigation you could possibly have a daily service.

Chairman 4001. If there a pier at Clagher?—Yes, a deep-water pier and a curious bible dock which holds a lew bests 4002. Is that used solely for fishing?—Yes, it is a little residential barylour for the local fishing beats The deep-water quay was intended as a landing-place. The little harbour is there. I proposed a small scheme

4005. What do they do with the fish they lead?-Cure them.

Mayor | The Clogher Head people have a deputation

4094 What depth of water have you outside the

4095. If you cut a channel there, would there be any danger of 15 soltens up 1. There is very better danger of eliting

4996 What depth of water could be reasonably obtained over that bar?—I have mede it 13 feet at less tide, about 27 iest at the top of spring itdes, and 26 feet at the top of mean tides. It is all graved and

4007. If you have got 33 feet outside, and you cut sufficiently low, you ought to have no advanced left;— You always have a tendency, where the river current steps, to drop snything carried by fit 4038 Would it not be better to try and get a prope

4009 Would it not be better to try and get a proper depth at enter-1-At the time I was preparing then I was beeking to the financial limits. I should vey much peeler to dredge 30 best on low waier. That would make the port a really good-class peet. In the way of railways, I am at present only concerned with the connection from the railway to the quays. har? As far out as we went we got 25 feet at low water. You get, very quackly, all the water you want.

Capters Dures Leves, of the Languakire and Yorkshire Railway Company, Owners of Steamers tending between Drowbedn and Laverpool, called in; and Examined. Chairman-centimed. Charrenge

4000 You are connected with the Lanzashire and Yorkshire Rulway Company !- Yes. 4102 The company have a steamer service between Procheds and Lectrool 1-Yes

4101. Will you tell us something about the port !— I am master of steamers running here for the past twenty-five years. It is very dangerous running in on the bar. When we are running in with the two leading the bar. When we are running in with the two seaming lights in line in a south-east gule, we have the wind and the sea on the ship's beam, and when she gets into the shallow water she skinds. Occasionally we cannot come in. Pethaps once every winter I have to

4102 Where do your hosts run to !- To Liverpool. 4103. What is the size of the best?—She is about 50 feet, with a maximum druft of 15 test leaded. 250 feet, with a maximum draft of 13 feet itested. 4109. Have you any difficulty except at the bar?— Of course, the river is known too, but the ships we

4106. What is the tonings - Net registered tonings 450. Of course, a great deal of that is passenger space. The great drawback for a shapowner is that he has to build a beat of a light drait for the river, and she is not good or profitable for any other place.

4106. What are they fitted for carrying-live stock? -They are good live stock ships, but must of the cargo is carried on the main deck. 4107 What do you take away from here besides eattle !- Figgs, cutrieul, produce and foodstuffe.

4108. That is the bulk of your cargo?-Yes 4100. What do you bring in ?- General cargo of all

4110. Is your general cargo intended for Drophoda or for distribution in the neighbourhood i—For both. We don't get much inlead cargo on account of the cost of bringing the stell from the quay to the rulway. That has killed our inland trade. It has to be taken from the quays and certed to the radium station 4111. You have no motor formes !-- No, sir, we have o motor formes. There are a few in the town. A few 41E2. They have not been used for taking goods from the steemer to the railway !-- No. 4113. I suppose your boats do not require succe was

40.13. I suppose your boats do not require more writer here at present, provided you get that famility i—We require more waler oven for those bests. 41.14. If there was more value here, would your com-party axed happer boats i—Well, if brink they would send more boots. They moght have a better saffing I don't knew that they would need higger boats They would not be required. We could have a hetter

All5. Do you mean to say that you would not be able to get sufficent eage here for expert!—I am sare we would if we had a better service.

4116. H you had begger boats you would be able to get cargoes in and out "-- We don't sequire them

4117 Curgo boots are going to be bigger and the bigger the boat the changer it is run?—Yes. 4113. And if you went so get cheep rates you want by beats. Would you have sufficient cargo here to pastify hugger beats. Yes, if we had a better harbour, I think so. We would have a more regular sading

Mr. Fids.

4319. I understand your principal complaint against this harbour is that it is a tifal fairbour, and that you cannot have a final hour for departure!—That is one of the complaints of the company. 4120 You purchased the interest of the Broghein Stampacket Company 1—The Lineushire and York-shire Company dril. I was in the service of the other

4121. What is the reason the sailings now are reduced eigh, where is no considered a work, and what was the reason that the Dropheds Company were able to give more suffings—the sea did not change i—Xo

4132 Or the Channel ?-No, but the Drogheda Con. I don't know for what reason. I was 4123 I want to know why it is that the company that you represent could not give the same number of sallings that the Drephela Company sid?—I have not the least side. I come here as a saller to tell what

4:24. There are two sullings a week?—We have three smirage—one on Wednesdays and two on Saturdays

4125. Do you think the present position of the har-bour and the bar and the want of dredging in the Cleannel have presented your company getting more live stock!—I are ware at has, 4126 And as a sailor you think that is projud out to the carriage of the live stock i—Yes, because many nights I have lain there with a loss of live stock on

4137. How long had you to lie there!-12 hours 4128 Were the cattle fed during that time!—They were kind of led. Hay was given to them on beard

4129 I know that there was a seersus depreciation m the cattle when they got to Liverpool?-That it 4130. Do you think that would be obviated if the pri posed improvements were carried out?—I am sure it would, because the ships would be able to sail at any time. If we had a better harbour I for one would not

4151 Yes.

Mr. THOMAS BENNE, Secretary to Drogheda Harbour Communicates, called in; and Exemined.

433. Yet use Secretary is the Drephela Herbour Characteristics of the Communication of the Co 433. You can sail as something about the outdition of change here. In the first meaner from a geographical standpurat, the part of Drogheds in the direct road into the great cattle-enough country of Meath and the agricultural cointing of Cavars. If as the shortest water to Levepoul and the other great English centres, and these to were railway leading all concerns, professes as for as the count of brought on the control professes are to a the count of brought of water con-

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gradues as far as the cown of progness it concerns.
The great drawback is that there is no railway connection with the quays. There is a growing tending for expedition in traum. With the great increase of this drawnd the trade of our part has been diverted. Gain discussed this trade of our past has been divertical. This divertion is a position on the supply at Desighteds Station. There is a large of radinary going into Sawria, and it is continuously discussed directly as the principal from its little of the supplementary of the principal from its little of the supplementary of the principal from its little of the supplementary of the principal from its little of the supplementary of the supplementary of Drophetty, there are letter radiusly on the supplementary, one going discussion the Ox. Headth and up to Civina, amphibitors, one supplementary of the supplementar some of Mench and Jones are Simporers, 60 within the admirts of the admirt of the Milky Mench of the American of the Milky Mench of the American of the Americ and the revenue decreased trees 24,300 to 24,510 146, 24, In 1900 the torange decreased to 118,045 tons, and the revenue decreased to 23,954. In 1905, the torange the revenue decreased to \$25,004. In 1975, the Souraid's focusated to \$5,001 term, and the revenue decreased to \$2,020 te, 4d. In these five years, from 1996 to 1996, there was a fall in evenue of the company of the se-tence force. In 1910, the dennage was \$6,704 term are the revenue \$2,900. In 1975 the Stemple was \$7,050 to a good the factors \$2,220. In 1975 as only of the \$6,700 term and the factors \$2,220. In 1975 as only of \$6,700 terms and the revenue to \$2,200. In 1975 the second \$6,000.

mencial year. The cornings in that year decreased to \$5,070 tens and the revenue to \$2,122. Here is while 1 draw year particular attention to. The tennage in 1922 was, 125,679 and the revenue \$4,255 5s. 24, whereas in 1935 it decreased to \$7,814 tons and in revenue to \$22,182. 4153. Are you griing us 1915 instead of 1915 1—I was taking thest in the order of five years.
4154 Give us the figures for 1910 2—62,784 tons and the revenue \$2,520.

4135 How to you account for the decrease in your termaps —By the diversion of traffic. We attribute that diversion to the fact that the necessity for expedi-

4136 Where has the trade been diverted tot-To-4156. Where has the trials been directed to I—To ther carries where the quay are consisted with the rulescyn—the neighboring parts, prohaps 4157. Let a fact that all these ports have lost trade owing to the war—I—will go back to 2200, before the war, if yee with. In 1990, the tomage was 62, 325, in the reverse \$2,200 as against 155,000 gminul decreases. 1032. That we below the war, and in decrease of the contract was 02,300 in 1032. That we below the war, and in do you car resi-1832. That is become use was.
If we had no war at all we would go down. Our yeartion is thus, in 1892 we raised a loan of £22,000. That
was to pay of a former loan contracted in 1855. The conwas to pay of a former loan contracted. was so pay on a commete some connectice in 1990, the con-ditions of that hom were that we were to calabilish a sinking fund that would be equivalent to pay off the debt in 1992. You observed from the figures I gave you that we had no meany to apply to the reserve

tend 4128. You have not get the susking final?—No, we have no moove H I deal with the year 1815, our recense was 22122. First and foremost, we were obliged to pay \$575 in interest to the local-holders, and we were compelled to maximize and 22 year compelled to maximize and 22 year. easy we were compensed to maintain and light the quays. Our position, then, is, that we sek the sutho-rities to give us a grant to improve our harbour so

Chairman-continued

were collings to do 22.

441. And you allowed your hardwar to po without designation. We have no final at our despotal to designation of the property of the part of the part

4145. They offered you money on lean !- Yes, but we could not create a new loan.
4146. If you had got the lean from the Development
Commissioners to put your past into decent candidate.

Commissioners to pair your post into decent cardistan, would you not have get more trade, and three-fore uncrossed your revenue!—We had no record for paying this loan that we have, and if we created a further learn we would have nothing at all. 4147. You seem that any notion; that is exposed of the hering in any return !—We were very tittle to exposed every the first commission of the paying t to expend except the tovernment comes to der relief and dredges the river for us and makes some improve-ment. That is the position we are in

4148 When we the present trust of the harbour sutherty founded !-- It was constituted in 1790. In

4438 When was the present trust of the larbbers entherty founded 1-18 was constituted as 7500. In 1983 it was established in the present form 6,000.

4450. What are open becomes first fit former 6,000.

4450. Howe you make effects to make succept—with the present form 6,000.

4450. Howe you make effects to make succept—with the present of the present fit former present of the pr

ped of having money to pay the inferest —That would while in any more reviews to us.

4355 Then explody who puts mozey into this per-dues it with the certainty that he will less!—Not to less it. The present breightliches will not permit any new loan to be created:

435 If it is convented?—Yes

435 If you want mozes we don't they com-

stoney to class them off 2-Yes alife. If you get money you don't think you would get recrue!—It is the trade we man. 485. Can you get the teels without spending a let of smore?—If the malary connection was there. 4157. Deet you think if the pert was unproved that the Railway Computer would make the connection.

4166 Den't you think you are putting the cart before the home when you want the railway before the har-bour! -- Get the nailway and then you will get the trade

Alfo. You believe that if this port were improved
that you would serve a very wide district !— Yes, if we
but builties for expedition in transit so that there

would be no maconiferous near catting still refer to railway station, a difficulte of a rifle 4100 World you advocate the deepening of the liver sufficient to take a vessel at any period. —Tex, but I would not say that that would be better than the rail-**Y CONCESSED.**
4103. You think that you would draw a very large amount of trade to your port from the unpresented that might be minde by the midway (emperior)—Two 4108. You wint an extense to be a Multipart from Kells t—Yes. We are a roar's part to Multipart and the contract of th

any other port on fact a few miles meaner. nearer than Dablin to it. measure than shallen to it.

4165 Here you may accurate that you would have
a through train from Mullingar to Drogheds, even if
you had that extension I—I am not in possession of
any farts in connection with that project.

4164 Do

126 September 1918.) Mr Broxe

Mr. Hudnos—continued.

4164. Do you know that the distance from Mallinger to Dublin is only lifty-one miles, and to 31 not a feet that three are through trains from Mallinger to Dublin 1—150, but there are other questions involved We sower throught of competing with Dublin, but we want to the processing with public, but we have the consentance of the reterra turble. There is Mr. Hudson-continued no really between Dropheds and Doblin. If that call-way were made it would not lessen the traffic of Dubbar, while it would upresse our traffic. The greater the facilities let the minand distincts, the greater traffic it overy commodity—machanalise and live stock.

Mr. Field.

4165 You are Secretary of the Harbour Communsioners i

scores 1—Yes.

450b. Den't you think the har is a great obtacle to
the derelogreem of the parts—It is the starting point.

450b. It you don't get over the hot, you cannot get
the July of the parts—It is the starting point.

450b. To Mark on the parts—It is prefundantly to the
derelogreem of the parts—It is prefundantly to the
derelogreem of the parts—It is

450b. To Mark on the derelogreem on the

450b. Thy did you self to It—December we had no

Assess of marking on get for isi—25,000 or £1,100

4447. When the parts—It is the did monitored

4447. When the parts—It is the did monitored

4450b. The thirt is the parts—It is the did monitored

4450b. The thirt is the parts—It is the parts—It is the parts—It is

4450b. The parts—It is the parts—It is the parts—It is the parts—It is

4450b. The parts—It is the parts—It is the parts—It is the parts—It is

4450b. The parts—It is the parts—

4371. Was it very old—"Nes, but she did encellent work in this district.

4378. And you seld her for \$3,100. You must be very hard up when you sold her!—"Nes.

4378. Wenn you obliged to sell your burges!—"Yes.

4378. Whit regard to the railway connection, have you reased any agitation about that railway 1—"Wast's the use. the use.

4175 Did you ever get anything without saking for
it!—We are sume we are asking now.

4176 I see afraid that is a flight of the imagination.

40% I am afraid that as flight of the Integritation. With Equation to the Genesiase may not revenue, you had that the reason of that grantiated docreases has been discussed to the part and possible value when the part are possible transported tra

the trade we would have to buy crames.

Mr. Field-continued.

4172. Are your borrowing powers exhausted !-- No. copt in this respect, that we can create no new loan

[Continued

4180. Could you not make another lean and pay that lean off i-What could we pay the interest with? This existing lean will arrive at maturity in 1862 4181. The whole foundation of your application to this committee is that if you had increased facilities your revenue would increased—Yes.

438. That being so, in there any reason why you should not obtain a loan i-We can create no new loan until the existing loan is paid off. We have no revenue to pay the interest on a second loan.

6 July on morest on a molecularing or agreement 4183. Was there an understanding or agreement between the Drogheda Steam Packet Company and the Lemasshure and Yorkshure Rashway Company that whom

I don't know that there was any bending contract, so far as I am aware of 4334. I was informed, as President of the Cattle Traders' Association, that when the English company obtained possession the sime state of things would be confidued as existed before the purchase!—I don't

4185 Was there ever shipbathling in this post !-

Nover in my recollection.

Mr Keeting. 4156. The Mayor in his statement mentioned that Mr. Beyor, when Chael Secretary, proposed to grant \$50,000 for the improvement of the port if railway connection was made!—I have nething to say to that; I have no information upon the point 4187. Do you know that the local bodies secured an

Act from Parliament, in the face of very strong oppoaction, in order to carry out this natively connection-yoe know the Act was obtained I—I am not quale-certain about that. I am not m a position to any may-thing about it. I have no absolute knowledge of those things. This may be absolutely correct 418B. It your Board responsible for keeping the river from Dropheds to the Coll Erndge I—No, arr, we stop at the brigh kee.

Mr W. J. D. Walker, Cheirman, Drogheda Chamber of Commerce, and Dearwing Company, called in; and Ensured eros, and Director of the Boyne Somming and Charman Mr. Wilson-Fox-continued

4189. You are Chairman of the Drogheda Chamber of Commerce ?—Yes. 4190 And you are size a Director of the Boyne pinning and Wearing Company!—I am. 4196. Will you tell us something about the lack of concessry entropy connection with the quapy. So far is the want of rationy connection with the charf is omeerned, it interfers with the development of the concerned, it interferes with the development of the surine district. If the rulivary contaction was made, Drogheds would be the autural peri for the arrual of earge from the Large himerisals behad Drogheds. The railway companies in Breland are only interested in chryging coll and other connectities large distances and are not very interested in working shore lines. As also so it know, the Great Merthers Railway Company has so it know, the Great Merthers Railway Company

her at 1 know, the Creat Newborn Robbury Compared to the property of the Proplement of the Newborn State of the Proplement of the Newborn State of the Proplement of the Newborn State of the Newborn Harbour Board, when he was giving you seine recent figures, that there were some months during which traffic was entirely interrupted on account of stri

Mr. Filhar-Ver-continued.

Mr. Filhar-Ver-continued.

For a question of Ergon, seeing the force of the filhar continued and the filhar continued a year for cold storage for the Government and others, in expect to the does must trans, I understantly see that the contract of solution, and that related to the prosent dampseous larrang at the bar. On a dark winter raight, with a gale blowing from the cast, it is alread topossible to post over the bar, and vessels have had to go basic to Liverpool. We applied to the Development On-mittooners for a grant. We had a good many inter-view, and a great deal of correspondence, and the property of the property of the property of the pro-pert cert.

Mr. Wilson-Fag. per cent.
4395. What year was this 1-1913. We expected a grant as they had £500,000 annually to spend on work. 4194 Was that in 1915?-Yes. I don't take the same hopeless view as the Secretary does of the harMr. WALKES.

Mr. Welson-Fox-continued. AT, Witten-Fox—continued.

week of loads note. It might supers, laces some of
him quasitons, that the Harborr Board should have
taken up the loan. There as a clause in the debarteres that prevents any further leas until the examing
jam A paul off. I histoght is was an usual in the
heraborous Communicators to offer as a loss unusual.

Berulprices Communications to offer at a lone material of a gaint Vest table and Silgo, 500 a year of their diposal to spoot. The centralization movined the Hard-diposal to spoot. The centralization movined the Hard-diposal to spoot. The centralization is the Lands, and the Barel, and the Barel, and the Barel of Works and other Government Deportments, as well as the Treasury, when concerned, 4196. The first debenture holders would not, I may soon have depleted to a mortgage behind them!—They

were not saked individually.

erro not naked inferriously.

4497 Would is be absolutely impossible to raise a second maringage behind the first 1—We would be assent the research. It as seen show would not give a second marine to the second of the continuous and the second of the second for the suntains.

lean 4199 Year view would be a less architious scheme and leave the radway compensor to look after itself to We do not percent at all that the actions then put believe the Development Commission was a really up-to date one, but we thought something should be done to get the boy disspaced and a straight course opened

4300 That that would improve your trade apart from anything else?—The connection with the relively iron saything else!—The connection this the railway is necessary. In Otiver sand that the proposed deplay scheme he schemided would easilier vision to come in practically at all slages of the tide (50) Would not that also be of great several to the pool would not that also be of great several to the pool and probably bring railway cannot be otherwise.

My Field

4200 Is it not your opinion first to take away that sharp commer at the bar? - To make the bar sufficient

to take traffic.

to sike inffic.

(2007 Yea went that point taken off?—Yes,

(2007 End went point taken off?—Yes,

(2007 End went point taken off?—Yes,

(2007 End went point taken off.)

4214. You see a coal moschant?-Yes, six 4214. You are a coal meschant's—Kes, sir.
4215. And you are going to give us some evidence on
the subject of the radiusy connection with the quark's
—Yes. The scheme that I considered was perhaps the — ten. The scheller trant I communeror was printing the hard was to take off a connection at the herbit aids. If was considered at the time that it would be the chappet scheme. It was estimated that the cast would be £15,000, and the land was to be bought besides, and the icedal that Mr. Murphy underbook to do to. Then there was a deputation from the Droghela Steam Then there was a deputation from the Despheles Steam Peckel Company to the Green Starthern Hallway Com-pensation of the Company of the Company of the Steam Peaket Company, and we approached the Decelors at the time. They went into the matter, and they glid not seen taximed to make the line of the Company of the Company and the Company and Mr. Marphy about ges min the matter of gra-duents that the engineer is the Radlawy Company and Mr. Marphy about ges min the matter of gra-duents. They went into the matter, and allowers-feether. They went into the matter, and allowers-

dents. They went into the matter, and alberwised with Marphy and that the improvements would only man a few thousands.

20th is that do for a subject to you had a single teach along the energy, it would do all that you needed few, and of the energy, it would do all that you needed few yes, and, of course, adding about the part of discrete places to seawhal the wegons. You can rever make exchange of the property of the property

Mr. Oliver-continued. enabled vessels to get inside the bar at preciseally any stage of the tide. I stuted that, to produce an economic scheme, it was necessary to go further and

up to the poor. Mr. Field 6335 Mr. Walker, do you regard the railway con-nection also as unpertant!—Penamally, it does not interest too at all, but it is vital to the town

4206 It is your opinion that if the improvements supposted here to day were carried out they would not only help Droghods but all the surrounting country?

4307 And easible an increased volume of food to go access the Charmel 1—Yes.

Mr. Knoting

ASSE I wine that, in a speech make yestentialy in Dalter, the winds, in a speech make yestentialy in Dalter, the company with construct opitial behind it do to a company with construct opitial behind it death and seen subshibed in Drephelo. In their late chat-les were supported by the company I wash to state the Chat Secretary resident very great assen-tiant to the construction of the company is assen-tly of the company I was to see the company to ago of the cover most of the company to ago of their own manager. Wilson-Paul They have been rather quick

4200 That company will largely tend to make a com-mercial success of Drogheds, Mr. Walker!—Yes

4219 Who built the Boyne undast I—It was built in 1854 by the Great Northern Railway. 4211. If did not exist then. It was the Dabhin and Bellist Jonation Company I—It was built before I

"4212 They wanted to get the quickest connection between Dublin and Belfart!—They probably did, but it would have taken them very little out of their way

55 30 FORM.
422.5 Would not the gradients be worse?—Not worse, than the sharp curve of which Drecheda Staton is the centur. Questions were asked why the Harbour Board sold the dredger. From the emission of Mr. Hourd soft the greager First the evidence of Ar. Oliver you are sware that the divelger required is a suction divelger, and the divelger that was sold was an checkete one; besides, it would not have done this work

Mr. A. M. ARCHIR, J.P., Coal Merchant, Drogheds, called in; and Exampled. German Chairmen-continued.

connected with the quary. Another scheme of railway extension was for R120,000, before the war. The designant of the twice and the connection with Mallingar would do a great lot for Deoglods.

4208 How do you bring in year coal 5—By tramp steemers from England, and it is discharged on more 6219. Have not the ships got tackle?—Yes, but the thips cannot be close enough to the quay to discharge 4333. What distance out from the quay !- I am give 20 feet or more.

4221. They could not put a platform in 1... No. 4222. You have one deep-water both i... Yes, on the

exact and of the vanished
asset and of the vanished
4255 What water have you get there !- I cannot
exactly say-about 10 feet at low water. Formerly
there was about 14 feet of water, but there is only) feet now. 4286 Have you may comes?—No.

Mr. Hudson

4335 When you approached the Railway Company, 4800 wasn yes approximen no namedy (tongenty, did you ask them to take up the matter on their own responsibility and lay down the line!—We saked then first to do that. This is more than thirty years ago 4225 They have not been approached muco?-Yes,

Mr Hudson-continued 4827 On the last occasion you approached them did you ask the Company to undertake the making of the line i-I dra't know of that 4228. When Mr. Marphy came in, did you ask them at that time to do it - Yes, and they declined to do

Mr. cuts., 4230 Had the Drogheda Steam Packet Company the Lancashire and Vorising Bullway Company that the arrives would be mura tamed i-Not that I am aware of.

4231. There was no understanding to that effect?-No They promised a great deal.

73. and the Dreghean attent Paraco Company sons, "He we made the line and so on, will you work ut?"— and they said they would rather put be asked. 4229 They would not even work ut?—No. 4222 Instead of giving increased facilities they have reduced the sailings to two per week!-Yes.

Mt. E. C. Phare, representing the Irak Chilling Mont Company, of Droghods, called in; and Examined. Chairman. Chairman-contraped.

4255 You are connected with the link Chilling have to be dredged, so that we can transport from the Mest Company !- Yes ills unto the steatoms.

4292. What toxings i—About 40,000 m dead ment 4234 When will it be in operation?—That is rather deficult to say, but I should imagine in or about January, 1912 4840. Do you expect to send mean on san 1—Proc-teelly all. It is a marter of great importance to us that the over should be dredged Mr. Wiless-Fox.

4235. Have you got the plant !- Yes. 4235 It is morely a question of patting it up!— Yes, and transferring it across. 4237, Where is the roll!—Across the more

Where is the mill !-- Across the river.

Charrens.

4238. What water have you got?-The place will

Rev. Francis P. Musiagn, r.r., Clopher Heed, Co. Louth, called in; and Examined. Chairman 4243 You are Parish Priest of Cloghur Head!-Yes. 4244 And you desire to give us some evidence !- Yes iff I was very glade so near you seen a question assets Copher Bead. It berings me at once down to the point. See Arthur Shriny Benn and gentlemen of the Irana Sab-Cormittee on Inland Transport, I hope you will pursuit me to lay before you in breef ferm seens bead in reference to Clapher Head Harsboar. Not hering read your instructions of reference, I trust you steing features on the opsiers coals, we have him with unstability. Outside the present just, as for water numerically. Outside the present just, as for water, we have a deglet of were 50 feet, and a lattice of the property of the present part of the property of the pro threemen pounds weren make Clegate Hand Ruzzour a harbear of refuge, olst only to fishermen but to the merchantson, and even to Rie Majesty's Fleet. The herrog fishing of last year was a complete failure, but that was an exceptional year, for the year before, and of horrings landed at Clogbor Head. In one year we had 30,000 means of horrings. We had a Mr. McKenna, he came for three seasons in accession. And then we have a keppening station espable of turning out an unlimited rapply Bul, and to ner up have in manner unburted repoly. But, and for ser we have a more of terment between improving the few corts and surfaced, in the utilage, and I am recisity indeemed that find want of measured of measured for the part the find want of measured for the part of transport feating keeps travellers are. Went of transport feating keeps travellers are. The motor beath and it is travelers poss up and down all day long before our ef-c, and, when they come to hand they evaluable takes

Mr. Field. 4841 Do you propose to start a tennery?—Yes. All the hy-products will be utilised. 4342 This will give comployment to the town?—Yes.

Cherryan continued of fish, they pass us by, simply because there is no means of transit. I would once again ask this honour able Countities to see for themselves this magnificent harbour I speak not now of its grandour and of the scenery, but of its possibility as a harbour of reduge. There is nothing like it along the eastern coast. Kilkeel is a tidal barbour and Callingford in by Hawsteerine Legathouse. And now I may mass by saying thin we have some clean of recognition as we have given 150 men to His Majasty's Fleet, and of these many have fallen at Jutland Battle, in the North radiantees will be jurned by your report, and I would corneally and respectfully argo that the days of timker-ing with hits of peecs here and there, and sooing them you disty is to recomment expensioners of memby on a place which can be made a safe harbour for ships 6045. I am afraed that hardly comes within our Terms of Heference — We thought it no harm to bring from in regard to it.

4000 In a general way we would believe in inproving the hasbour!—It is an exceptionally deep-

Mr. Eindere 4247 What is your noncest willway station!-(This deed the contract b

The Mayor of Draghods | I beg to move a vote of thinks to the Committee for the very painstaking way thinks to the Genomine for the very polantiality way. It which they have bettend to are not renderever to do strucking free thin grand of town. We feel we have been seplected free a considerable time part at many generates. We want our porsymptotic than the second of the second of

I feel two we nee Al deonly graided to the Committee for the present bearing they have green as for the present bearing they have green as the committee of the standard of the Stale Committee I ten to shared with Committee I ten to shared with the committee I we use and you, Mr. "Howe, for the fall of sound you have just sitteed. We are very glad for result you have just sitteed. We are very glad for sound you have just sitteed. We are very glad for sound you have just sitteed by the your and I by Register to the found of the committee of the c

(The Sitting then concluded)

TWENTY THIRD PUBLIC SITTING FRIDAY, 27th SEPTEMBER, 1918.

At the Oak Room Mansion House, Dublin, at 11:30 am.

MINGRISH PRESENTS

Mr. Wilson-Fox, M.P., Chauman, Select Committee Mr. William Field, M.P.

Mr. W. A. Lindsov, M.P. Mr Matthew Keatens, M.P. Mr. Walter Hudson, M.P.

Mr. Prince MacNetter, Secretary SER ARTHUR SHIBLEY BENN, M.P., DE THE CHAIR.

Captura J. H. Wass, B.N.B., Harbour Muster, Dublin Port, called in; and Examined Chairman

4346. You are Harbour Master here?-Yes, str. 4349 I understand you are giving us some further information about the port of Dablin 1-I have been here for an years, but before that I had the advantage nere sor an years, but become unan a neu the advantage of seeing remarkable developments take place in Cal-cuits and Buenos Aires. In 1887 Calcuits was only a cutta and Bushot Aires in 1607 Colombia was tany a summp—where that swump was those is a very fine dock. It only took a few years to bring that great chaire about. It was done with British capital and change about. change about. It was done with Brinis capsel and labour. The sames them lapspend in Bussel Area. When we went three first there was no barbour, and move it our accumulate. Our labour to the barbour and the first port in the world. It only wants develop-nent The burn plant tirout are was their two-pont. The burn plant tirout are was their two-toms of the burn to the north side, into which the analyses real. The south such has a peut alwarming-plant plant tirout has a peut alwarmingcur the north side, as you have deep water, but there is no nailway connection. The south quays are almost devoted at present for want of railway accommode-

4320. Are the quays privately council.—They belong to us.—the Dahlin Port and Docks Board. The only trude that we are doing there at present is one cross-Channel company—the British and Irish—which has grown into an immente large company and would require thousands of feet of quaye if we had railway inclines. The only revenue we derive extends that is from nature timber. That nakwe timber has to be company Station clean round the city down to the company counted down round the cay down to the South Quay. With this caring and everything also the North Quay is hipplessly blocked. The quay is too small for the traffic. We have to loop up a force too small for the traffic. We have to we cannot, as a of palms to keep these quarys clear. We cannot, as a matter of fact, keep them than They are blocked hour after hour. The only say to do away with the most after nour. The only say to do away with the carding is by milway accommodation. The first essen-ial, I should say, for the port of Dublius is that we must have deep-suiter bottle. We have only one searmust have deep-water borths. We have only one desp-state both in the port-that is at the send of the North Wall extension. We have got 22 test of water on the bar, and the high tides given as 2 too. We all know that the new skindardund ship is a step that, if it curres asylings ever 5,000 time, drawn 50 if feel of water. We want to accommandate a large ship. We or water. We want to accommense a safe time to have got results coming here, from time, to time, daw-ing 25 feet of water, and they he at the buttom of the river at low water. The result is that when there is a rive as Jon rates. The result is that when there is a charter for Dollan free the Billio is a slavar refused became we have not a deep-mater both. There is no disposme who liften is have his result lying on the bottom of the triver. If we had many we could get along. There is no definely in getting deep water. Vox could dredge satill you get your depth. The size or is no small that if does not core into combinestion.

at all.

4051 De I understand you to say that you have no both at all where you could darcharge ships drawing 27 foot of water5.—Not a single both, and we have only one that is 25 or 25 feet at present. The only very one that is 20 or 20 feet as present. The only safety re for a shap drawing 24 leet, and we have only

4252. What is the length of the benk 1-750 feet. The result we have coming in now are over 500 feet

long. What is the remedy you perposed—The 4823 What is the remedy you perposed—The deepening of the river. There is no difficulty in direction of the river to any depth you like, and to do that we will have to deepen our quays.

4254. Would the quays stand 1—No. It would be an When our electric crams were out on the North Wall extension the crams were built there for extending our

quays 15 feet ont.

4255. You started off by speaking of the differ-between the porth and south miss — Kes. As know yourself, the city is divided by the rivor. It has

more imperiant would be the crossing of the workstar-At present on a very bed day our furness entants into at all. They are only the ordinary res-beats, and seekness are bedd up on the South Casay when the con the month side. There is no very of petting errors. They have to with round by the Batt Bridgs. Again, in favour of the south wide, as the fact day there is a terensidual test of ground that could be said as storage teremedical let of ground that could be used as storage and far warehouse. These is a bit of waved ground that could be utilised. 455. What you want really is either a tunnel or a transporter bridge — Tas 4297. You have not took for supplying about the reli-vey connection!—The railway connection on the semi-side would not present any difficulty. If a could be safe would not present any difficulty. If a could be

sade would not present any difficulty. It could be easily hearsh from the Dublin South-Eastern Rail easily hought from the Duhlm Scein-Basters Rullar way, and all the nullvalys could be well-off from all over across the new controllers up to the controllers and make the country of the second product of the controllers made for jetning to the Second Java Jetnice to make plants in the Bastern Rullway. The controllers was produced to CEO What shows the Cook of the Ceo and the country of the short 11 michael second to the country of the short 11 michael second to the country of the short 11 michael second to the country of the short 11 michael second to the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the country of the short 11 michael second to the country of the short 11 michael second to the short 11 michael second to the country of the short 11 michael second to the short 11 m

4079 Silted un from what death?—In the centre of the besin you could get any depth. We have three depths at the quays. We have depths running from 30 feet to 23 fast and 25) feet. 20) feet to 22 inst and 20; its 4259 Is 25] feet in the desp-water both that is 759 feet length—Yes. The dredging was a very small figure in the part of Dublin. Once you got down to a good

4261 You are not dredsitty regularly !-- Yes 4360 Her many dreduces have you get !- One very seed from many drougers have you get to the tenty up-to-date dredger, a suction dredger and two bucket dredgers on the river-one single and one double bucket. There is only one bucket dredger really that would be of much use for dredging down to a certain th. The other would do to droige at low water up-to-date drefper would maintain the port of

27 September 1918.1

Chairmen-continued halding its own for many years and has 21 to 22 lead of water and in parts 34 feet. 4265. At low water [--Yea. 4264. What is the betters—is it sand 2--Yea.

4266. No rock !-- No: all sand My. Landsoy.

4266. You spoke of the south wall for the cross-4355. Ion sport to me some Clumet trade — Yes, 4257. You are tallong of the ordinary daily service? — Yes, daily and weekly. 4356. What about the passenger service?—There is

4856. Whit should be passenger service—There to very little passager service.
4860 The passenger lipits would not not the service would be quite close to the statem at Tan Street.
4800. The carriage could not come alongwish—They don't now, except the Lendon and Stretch Western 4800. The carriage could not come alongwish—They don't now, except the Lendon and Stretch Western 4801. You could not do that in the swift wall— 4802. Two could not do that in the swift wall— 4800. If we all he a promision two yi—Thes. 4273 If you made your connection with the Dublin South-Eastern Bailway it would be very roundabout

for passynaport few can our our loss as an account of the Passengers four't pay.

4274. As required the Head Line Co., had you extend the passing the Passengers, who is energytis and up to date, whatever arrangement has the passenger to be incurred to people allows his beats to like on the bottom. It is a very sore point with him.
Dublin has a great advantage over other ports which
have not a mindly bettem. It does not hurt a ship.

have not a munay section. It does not nurs a samp.
We have a good many sees of ships claiming liability
for tecching on the bottom.

4225 What would the "Rathlan Houd" draw!— Mr. Wilson Pes

4276. Who at present runs the rankesy facilities at the north aids. Is it the harbour people?—The realway people entirely

4377 They own the railways and work them?—Yes

4278 Would that be the plea on the south side—that and a port problem

Mr Wilson-Fox-continued 4279. What I meant was as it your sion that the ruleways should not down the lines and work them to

4290 And that is the present condition !—It is. They resp the advantage by that. 4981. Do you find that a satisfactory arrangement on the north side—the radway companies ranning the

4883 Have any reports been obtained as regards the out of what you propose?—I don't know that the Bond ever wen! into the cost I believe many years ago they did, but the cost would be entirely different at the present day, and also the changes fruch have taken

4283 At the present time the Port Board is not in a position to put in a solution supported by engineering 4394 They are not ready now !-No; but they could

Mr. Hudson

4225 Hau the Dublin South-Eastern Railway been spreaded with regaid to your project of rillways been the seath quart I don't think they have been an-4886 So you have no idea as to what the scheme would be likely to be so far as the railway point of year is concerned !—The only side I would have as that 4207 Undesktedly if a practical scheme was adopted and that there was selficent brides. But what I wanted to knew wis this, have the railway people given their point of view with regard to the present of the railway connection and expressed their challifys of the railway connection and expressed their

4288 It would be very largely a practical question

Mr. Josaru Manason, Mickelon , Engineer to Dublin Port and Docks Board, called in , and Exemined.

4299 You are Sugmeer to the Dublin Port and Docks Board, Mr. Millight -- Yes, sr. 4290 Mare you get any information to give un?-My 4200 Mare you get any internation to give usr—33y without in the austier is to say whather the negotions put forward by Copiain Webb, relative to Dabhio Pert, are predictable frees an engineer's point of view. The first matter to which he referred was want of depth in the bettle for motion istomers. The walls of Dabbio Quay were continued by Dr. Stoney, and, it has then they were constructed by Dr. Stoney, and, it has then they were constructed by me, or in the latter than they were constructed they me, in the latter than they were constructed they me, in the latter than they were constructed they me, in the latter than they were constructed they me, in the latter than they were constructed they me, in the latter than they were constructed they me, in the latter than the second than the second than the contract that the second than th ment, but, at the came true, there is no manparable difficulty in providing moderate additional depth. As harbor chan, Gaptain Weeks, and if hash the Port and Desks Beard shading, a constructing new veries, as for a unsamme depth of 30 to 31 feet with a prospect see that all training of the process times as prompted by the deepth of the Paranas Canal—practically 95 feet at low water. The Dourd have not any secondary of the process of the process that all training the property of the process of the process of the Port of Politics, and the process of the Port of the Port of Politics, and the Port of the Port of the Port of Politics, and the Port of the Po manter. While I alk not also to give you a curband-dry scheme, yet, I suggest, there are certain through that might be done. Owing to the peraliar construction of the North Wall, I think we should have to fimit our death there to 30 feet. 4391. If you had more than 30 feet you would have

to reconstruct!--Not reconstruct there, as the cost would be prohibitive, but we would have to provide

4250 That is not the place where you would gut the deeper shape 1-No. I would suggest the opposite sale of the hamn, at the Alexandra Whiri, where we now of the barn, at the Alexenira Wheri, where we now have 22 or 25 feet. The Beard here already sanctioned the construction of an extension of this wharf. Plans see in existence, and we will probably construct that to give a depth of 32 feet at low water. That would give a depth of 32 feet at low water. That would give a berthage for one more ship a second alternative borth. In this supposted scheme of improvements that Anyone going up and down the north wall can see the very serious delay to cartage going up and down, and it is a great drawback that a lovy carnot do as titing we origin to seen away from the Note of west, see I have prepared a small scheme showing what might be done I think the question of train former from Bublin across the Irish Channel was raised at a former

4295. I don't think that was made here!-- I think it was made by Sur John Griffith 4294 My idea was that it was from the Alexandra QMA MY MORE WHO CARE IN THE MADE AND ADMINISTRATION OF DOOR'S - LITTLE WAY WORK TO A CONTROL THAT IS A VETY MOTION CONTROL OF THE MADE AND ADMINISTRATION OF THE MADE AND ADMINISTRATION OF THE MADE AND ADMINISTRATION OF T deep water berths to take the traffic.

Mr. MARLAGE

Chairman

Chairman

Chairman

Chairman

Committy 30 feet at less water. It us reither better
than that—it is 21 er 22 feet, but the railing depth
of the ber is 29 feet at less water.

4236 And at high water 1—33 feet.

4237 If improvements were being made by your

"again And of logh water 1—33 Sect.

257. It importanties are being made by your Board in the hatfour you would want a greater depth over the last all limited to being made being and all limited to be the section of the section of

Size we existed restorately count upon, var. to being the largest of our stepper and to be taken proceed on 6398. It you could brong in the lasten proceeds of your dripping ask any stage of the take Mr. have gone to see he state the state of the state of the state of 6399. Then you have 28 feet 7—75, and that is the depth I am proposing that any works to be earned out about the No. Septimit the proceeding of counse, that

purhaps, races a matter for the Board.

My, Wilson-Pox. a301 Could the North Wall position be improved by a re-arrangement of the railway facilities on that 6302. But that would be a matter for the vallery \$th would concern both the port and the realways. It would have to be a joint achiene. The present facilities weal have to be a journ salarize. The present shulltan for some of the sullvays are not very great—company previous ever each other's lives. Dealing with the surgestions that the sullvay of the surgestions of the surgestions which will—a unsued or a transporter lands—that is a matter that has to be looked at cash a indivery connection by turned to a surgestion to the surgestion of two You cannot very a make a indivery connection by turned to succeeding 4305. Not for trained—No, not to train a You, are holds: You may transport three or four wagers.
403 Not for retarn2—No, not for retarn No. are
britted to your loop line for that it was
that the your loop line for that it was
a reary management and the control of the control
South-Eastern law with a system of realest on the
South-Eastern law with a system of realest on the
consistential and depening the South quoty, and
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here was a malleur there Mr. Lindsoy 4004 Yes would say that the prisiences arrangements at the North Wall are resourche now—the transfer between the trains and the local —Considering the difficulties of the situation, I think so 4006. The largage has to be transferred by shard to

It is very difficult to improve on it at a reason-You I is very difficult to improve on it as a readin-side expenitives. That is more particularly a matter for the realizar company shall, whether shelt realiz-voud justile the expenditure, but the Based has great them all the inclinion they have asked for. There is one important matcher that cross up here. Alderman licean, an giring oridinate before you, referred to

Mr Lindsty-continued.

negotiations which had been taking place with the Government with regard to the Spar Wharl and the lengthening of the Gerard Dock. I am actry to soy that I had a letter this merming from the Admirately pencionally patting their foot down in regard to giving m any help. This is the letter:—

CWB/AEA Admiralty, Great George Street, London, S.W. L. Copy

Reply to—
Controller-General of Meschant Shipbuilding,
Gast George Street, S.W. 1,
and quote C.G. M8/1599/XL129965.

24th Septe, 1918

Dear Mr. Mallagh. Proposed Dock Extension and Sper Wharf.

I have your letter of the 19th September I have you letter of the 19th September en-closing copy of your secretary's letter of the 37th August, from which I see it is quite clear that the Spar Jetty construction entirely depends agon whether the Admiralty will defray a portion of the cost, and that the lengthening of the Graving Dock could only so as if your Beads was authorised to use their barrowing powers for this work instead of limiting them to the construction of a new

The whole painties of works of construction has greatly altered since I saw you in London, and the War Calmed have now issued in sdiet probe necessary for winning the way.

Because of this restriction it has now become almost impossible to get the Trinsury to agree to giving grants in and of works of consimetion at all, so that I am almost it would of no use priling forward an application for financial assistance towards the Syst Wharf at the present recent. Of correct, Ireland a different from the set of Great Britain so far as lobour is concerned, and I are taking the earliest opportunity of asking the Committee of the War Colomet whether their re-

Committee of the way Cannot without not be strictions on new constructional work might not be somewhat relaxed where labour is plentiful. Bet there is still the difficulty with regard to commitwhich is now harder to obtain than almost any f material,
f material,
Yourse fishbfully,
(Sgd.)

O W. Burss,
Director of Extensions J. Mallagh, Req., Poet & Dooks Board, Dubby,

Wilsen: If the Government had agreed to our offer at the beginning we would have the jetty completed (Asirman | You would not expect the Government to agree to this work if there was war work on-whim they want the cessent for other things !--At that time

Mr. E. W. L. Hour, Chaef Inspector of Fisheries, Department of Agreealture and Technical Instruction for Iroland, called in ; and Examined Chairmen-continued.

The Department is responsible for the Administraand Datracis Soud laws no alturated two logical three or judical functions, let may expect their funds on the development of dialects in consuled distincts to the development of dialects in consuled distincts to provide the second function of the consultance of the consultance of the tot modelling Loudenderry to Resemberry (was to Creakity). On Cork, with the exception of outside small areas of no present importance. In practice the

gested districts, but may og occurren omfritude to a harbeur scheme et common suportance. They have carried out some small harbeur swifts at places which have since been included in the Congested Districts area. They are concerned with the development of area. LECT are concerned with the development of whell-the industrues, irrespective of district, and have reads some expenditure in connection with landing facilities for system and musuals in a composed dis-trict. Difficulties of railway transport arising is con-posted districts are usually referred to the Department

Department do not concern themselves with the con-

Authorities

Cherrings-continued. AUTHORITIES RESPONSED FOR THE CONSTRUCTION AND

L. The Copers, as represented by (a) The Commissioners of Public Works;

(a) In commissioners of Fiber reasons (b) The Department: Construction of Indiang press and Indiang Indiang

2 County Ownell 3 Independent Harbour Boards. 4 Badway or steamship companies, and industrial enpanses.

5 Private owners, real or alleged

The Board of Works are charge concerned with large The Beard of moras are county concerned water large harberrs, and they maintain certain Royal harburge-e.p. Douaghadee, Arighase, Howth, Engetteen and Danniere Best-but they appear to have power to transfer works to County Douardis irrespective of their one (Grand Jury Act 15 and 17 You. c. 126, e. 7). The Department on the other hand, are precluded from constructing, for transfer to County Councils, marine works, other than works of reconstruction, costtheir doubline-net, or sensers to consequence the sense of the sense o

PROVISIONS FOR CARRYING OUT WORKS OF CONSTRUCT The Board of Works have a permanent engineering staff, dredging plant and workshops. The Department The Corpored Durinets Board have me, so far as I am aware, at present may appear such for deshar, with names express County Countils appear to be dependent on their County Surveyors for manne engineering. purpases. So far as I am aware, none of them possess any marise dreiging plant. Harbour Beards at purpasses. So far és Lun avezra, corso of teun lessessa aux assisses descieng galant. Hambour Beenis at aux assisses descieng appearance of the control of t because thee could use more to see a spine staff and not returned above to such engineering staff and dredening facilities as exist on the west coast and there has been no kine to get in detailed midernation as to the equipment of Harbour Boards generally.

DIFFICURITIES OF EXISTING SYSTEM OF HARDOUR

MAINTENANCE AND CONSTRU The maintenance and improvement of Royal Harbourn The maintenance and improvements flowed Hartonian are satisfactority dealt with by the Board of Works, who support, however to find occasional difficulty in powerance plant; as they do not seem to prove the plant; as they do not seem to plant adequate for all emergencies, but in long out seem to be a cosh officially. The boards in charge of large hartonian such as Landensterry, Bedhard, Dublin, when the plant of the p Waterford, Cork and Limerick, also appear to have slequate resources, in stall, plant and revenue, for

When we come to County Councils and minor Harbane Bearits we find that the former are dependent for an gives the advice on that county surveyors, who so not necessarily powers any special knowledge of marine work, while the unince Hurbort Boards have no ex-grasering assistance at all, and I believe neither the Councils for the Boards possess any marine engineer-ing plant at all Not amalarally such harbours are

Charman-continued ness of no public body specially computent ad hoc to affect the necessary supervision. It may be added that the administration of the revenues of these small har-

Turning to the question of construction, including improvement or enlargement of harbours, the driving of these franctions between three separate bother without the limits of a country the use of fredard is perimp as an abeal arrangement. Harbour construction, monor-

or rather strong

The solution which suggests steel to me, in my percentual authority, adequately staffed for purpose of supervision, and derring such funds as may be requisite, in addition to establishment charges, for a system might tend to the improvement of husban-

haps in no great danger of dismissal Dealing with things as they are, the Department in 1910 mode enquiry with a vow to meersain free in-t maght he passible to utbine, on mutually semiable bevore, the discipling plant attacked to some hardware for work at hardware which had mome as your of a general co-operative scheme an which the Department's

the project impracticable
Two of the harbour authorities which the Department may here mention a minor difficulty in the present

POLICY OF FIGURE HARROUS DEVILOPME mutation of fishermen endeavouring to make a lister Mr. Hots

Continued

in face of the server competition involved by modern Arklow is, of course, an excep-

What we have to endeavour, with due regard to enviene or probable familiates for getting fish to market mo to manner of me trying to graft a skem-layaling or stemi-ling motorty on entitying parts of the costs, became there is no sufficient insides in the construction of the construction of

I am not referring now to echemes which aim at establishing Irish steam-trawing parts merely or renormally as the landing-places for fish to be sunt

PUNDS FOR PROVISION OF FIRMING BOATS, GRAR, &C. Find, the remnant of a mech larger sum collected jor the redder of the rest of the redder of the red

notors are made for periods surely exceeding seven yours, which is about as long as an encome can be

PERCHASION COMPRISORNOUS, IMPROVEMENT AND MAIN-There remains out of a sum of £50,000 excussion

Incer remains out of a sum or good or observed for the Department's allower purposes by the Develop-ment Commissioners in 1921 as unabletted balance of belowen £6,000 and £5,000 hypothecated for the deelg-ing of a channel connecting Helvick and Dangarwan, for which purpose it is not likely to suffice. There is olso an energended balance of \$400 from a sum of \$2,500 allotted in 1911 for the dredging of small

The Department have a statistory income of £10,000

Chairman-continued.

General—catalized,
in the Paylamentry Yode, and fire resulting investigations, shallful callors, shaling experiments, etc., etc., ta somal times the manatement of the Paylament Paylament Commenter was a very heavy things on the Early Commenter of the Paylament Commenter of the Paylament Commenter was a very heavy things on the Paylament Commenter was a very heavy things on the Commenter was a very heavy the paylament of the Commenter of the Admirably, who for statedary reasons to populate allowed every to the great mercans of Arkhy Raktour recents from diges or much processing and the Commenter of the Commenter works which we had in hand when war committed

I hand in a statement of the contributions which the Department have so far made to marme works, amounting to a total of about \$42,422. It will be seen the Department how so for make to narrow works, amonging to a total of wheet 264/22. It will be seen that \$25,999 of this was contributed by the Apracational Beard out of the Department's Apricalment Bearderment, in respect to puppers of itself of parameters and experience and explored of stripers, \$25,405, and elamas, size, of suppercent paids, \$21,769\$). In tase of the mercanic cost of wages and every commetity, it is next on though the the San Fuderica Ford self agent to in a position to make any sold.

surply wish agains on in a possissi or state any sun-stantial ecurity states to the cent of maxime works, and I believe the same may be said of the Agmentural Endowment I may add that to allocate, out of in-clusing funds, sums for currying out maxime works is a most dangerous proceeding, as it appears to be im-possible to make anything life a cites estimate of the

cois of a marize were.

4502. I guiltan from year statement that there are
the different below temporable for the constitutions
and manufactures of birduses. "New Three is, fast,
and manufactures of birduses." New Three is, fast,
Public Works, the Depositions and the Comparison
Duties Exonia; (29 the Courty Councils; (3) Indepodent Hardwar Rocods; (6) Knitzway or Stearnship
Companies and Hackthrid Companies, and Obj gavane corners, some of whose rights are rather nebultus.

4300 Are there any posts where more then one authority is responsible "—I don't think in fact there are, but I know a once of a harbour where the County

4310. What are the relations of the Board of Works to the local governing bodies !—I don't know. We only

4511 Are not the County Councils subject to the Local Government Board!—Yes They have to shade by centam rules land down, and I suppose the Local Government Beard have some gover to appear or with-

4312. You say "The Board of Works are chiefly concerned with large harbons," and afterwards you state in the following paragingh, "The Department, on the other hand, are precluded from constructing for trans-fur to County Councils, ste "5—Xus.

4313 Done "The Department" there mean the Board of Wesket-No, it means the Department of Agriculture I always mean the Department of Agri-culture when I say "The Department," 4334 Con you tell us why the Department is pre-

There were some restrictions on the amount

which the County Council could contribute to works I think they could only contribute a very small son 431K You say here, "The Department, on the other work for my nim, "the Department, on the other hand, are precladed from constructing, for transfer to County Donnoils, marine works, other than works of construction costing more than £2,250" Who returns the centrel !--Well, so far as I know, if we had money we could construct works cesting a great deal more and return control ourselves. That is what we propose

Mr. Wilcon-Fog. 4316. That would be a new work?—No, it is a very large work. It is a work that belongs at present to a

ASST. If you find wether contains more than 20,000, which do you do with contain more than 20,000, which do you do will not seen a second of the contains the con

rale
4519. So if you find a place where there is very good
fishing going on, and you thought it would be very
useful and necessary to expend \$5,000 on it, you would Selici and necessary to expend action on m, you would leave it alone?—Yes, but where there is good fishing there is rearly always some screp of a harbour in exist-

Mr. Wilson-Pop 4320. There is the loop-hole !-- That is the loop-hole.

Cheirman 4583. In the next paragraph you say, " At Dandalk,

control.

4332 Yos any farither down, Harbour Boards at Dublin, Waterfeed, Cock, Limerok, Sligo, London-Jerry, Belfast and Dundalk have barbour caginors "?

—1.es 4385 Is there anybody over them—any big engineering supervised I—08, no Each Board appears its eva engineer, and, of course, they may on occasion call in a big man, who advises them, but there is no one in a graceal way over those burbour engineers.

400. We heard in one or two places we visited that although there were good dredgers in existence, they could not keep them on account of the expense, and them any Department that would be saked Mr. Hassun watnever it supports so want it is saked Mr. Hassund to propare a complete list of the dredging plant in this country, but I think it is not quite complete. He will give it to you when it is

6335 Is there any divelging plant not being used at 6033 Is there are dredging plant not being used as procedul—say motion dredging plants—I don't knew whether the Waterbord Harbour Board plant to being most or not. These is a costna narrowin of dredging plant which, from time to time during the year, in me used, said what might be posted sensor be used during that easien. I perfectledly mentioned the grownian of that season. I perfectledly mentioned the grownian of the signal of the season.

Chairman-continued ing what a hurbour is going to cost. For instance, you may have an estimate of £10,000 for a certain week All seets of things may happen. You can never is? All seeks of things may happen. You can never tell what the sen is going to be up to while you are printing up the hardour. I don't myself like going into those solution without a larger reserve than usually exists.

4000 I presume it there was a central authority three voxed here a staff of engeneers who would go round any noise estimates for the mutitorance and improvement of the ports i—Yes.
4001 II as we a most valuable and inferentian decrease. Onts :-- You.
This is a most valuable and interesting discu seems which you have hunded us. It is one which the Members of the Committee would want to story very closely. We may have afterwards to sait you so add to it or give us some information about it. The Committee

will study this statement of yours very alosely. Mr. Wilson-Pou-

4328 I see that you are temporarily in clover by the Admirally having taken over the crumer that you would otherwise have to maintain!—Xio. When she come hack to me she will probably absorb the whole of the

6333 I should gather that your rior is that the whole postion wants reviseung !- Lee I hand to this list of the work we have earned out with our own funds and the work we have earned out with our own funds and such assistance are we could got such assistance are could got such as such as the work warrants—A certain temperary skuff as the work warrants—A certain anniher of them as nevelly percursored. They are only temperary in a technical intens. For some reason or temperary in a technical intens. For some reason or temperary in a technical intensity of the second pro-teament of the second reason of the second pro-sent despectated reason behind it, but see for an I have anything about these numbers, it is generally a laws anything about these numbers, it is generally a

Mr. Huston 4331. In your suggestion with regard to bringing local harborns under one central authority do you think you would meet with any serious opposition on

Directory the incoine and expendition and the debt on each Harbory Econd is set forth.

4586. In the carrying out of your release you would bey upon each Earth was the Econd as a commishe proportion of the anseems for the upkenp i—Yes. I think the Contral Body should, have the dates and, having a central activity not everyone by Jeen minutes, it is quite an earth of the contral time of time of the contral time of time of the contral time of time in seem harbours at any rate, than they are at present 4323. It would be a general advantage to the trade

4555. It would be a general stranger to the tempty to have the hartons so managed and controlled I.—So far as I know anything about the trade of the country I think it would. It would be certainly an advantage to the failement. Mr. Keeting. 4884 I would like very much if you would accept the Chairman's suggestion to give us time to consider the Chairman's suggestion to give in time to consider this statements and add to a creeky to any questional— —Yes. If I get an idea what the Committee wants to knew, I shall be gird to gave you the information My distinctly was that I dol not quite know what the Committee was going to sequire uses. I don't know whether the Occamittee would care to have about

4335 We saw Afficiev. There never has been a Elec Book which surveyed the whole of the harberns of Iraland 1—The Board of Works have periodically pub-

smeat accounts of the farbours.

4536 Three is no see Book that covers every har-bour!—So, there is no published report. Mr. Dick made a report about fishing harbours to the Board of Works which I have seen, but apparently if has not Seco peldished.

Wifteen 1 I have a lot of things here about fishing boats, the landing of fish and different fishing harbourn about them. I can hand in the whole thing.

4897. Thank

4337 Thank you -I should like to say that the works that I consider of the first importance in relation to februics and works which ought to be taken up, if musey could be got for them, are in the order of of yours they had not any particular harbon. Board of Works improved than harbour gratty. Badds being the force of those fidences, it is also place flow which a read granter of pictors in a place flow which a read granter of pictors in a fine of the pictor of

4340 Is there no authority that will compel them if they won't do it t-I am not aware. I don't know of any controlling power. The Harborn Bourds are absoover all there does, less the cost of standard carryon and camerial repair. Owing to the great three-see of sevene frees does on numbers shape, we are gotting back some of the means we lest on droughing Arkhov Harbour before the war. We allow our Engineer to shrive the Board on any point, but the responsibility is the Board's I believe they have got an opinion

Chairmen-continued.

from Sty John Griffith as to the best way of safeguard ing the South Pier, and somet or later they intend to take his advice, which commits of putting rabble on it at a cost of £800. It has been several months same that not that advice

they got that survee 634. They have got the means 1—Yes, they have got single means. They have Kyroch's scenaries variancy in and out and paying dive. 4ME With regard to Passage East Harbour, the County Council provided about on-third of the cost? 4545 And the National Government gave two-

Thirds - Yes

Cherroon | We are very much inhebted to you for
the peat deal of week you have done in preparing
you statement and the returns

4344. Has there been any instance in your experience cannot remember one 4345 The reason I am asking is because a suggest

tion was made in one place that an unbox authority might act as a Harbour Beard !—Urban Distrets do appearst recessedatives on Harbour Boards, I believe

Council.

4347. It could be done in that remedabout takkion 8

—Tex. May I say a word about Ballycestic. We attack importance to it. Rathin is not very much unites you can land at Ballycestic. I notice that one

4348 Are there any other papers that you think would be of assistance? If so, we would be very glad to receive them !-- I will give Mr. HasNulty a copy of

(The Sitting Then concluded.)

Mr. ROMERS WORKERS-STOY, representing Galway (Barns) Transatlantic Port Scheme, called in; and Chairman-continued mettee, with your premission I will roply, and then answer any quantum your Committee may desire Large liness carrying outs, mains, etc., will be delivered to be remarked encoded on the tree. Transp

Charmon War Markend, Mr. Worthington, you are outlook to give as some evidence of the question of the departure of the question of a feet and the series of the question of a rest deal of seldence or reference to fallowy and I think we are fairly exized of all the promise of any in competition with the cosed first labelouse, that the "chole of Ireland ought act to be seartified for them. He se brought the large cauges to Galvey and trade in the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-ceast forms through that they could deliver to good it flooded at Enveryool that point We will take you askinged. We darm this would all the good were brought into Galvay and these were no direct chipments to any extent to the ports all cound believe delipments to any extent to the ports all research flood on the control of the control of the control of the con-trol of the control of the control of the con-trol of the con-tr the whole of Ireland ought not to be secrificed for salpromis to any extent to the ports all reason irreson that cognit to feed their introduced, you would make it up by shapring round construes?—Yos, it would be to their agterest, but, over if it was not to their interest, we say that all Ireland ought not to be seen-

fixed for the creat line.
The following is the statement received from the The question of discharging large cargoss at Galway, the coating of alcamers at Galway, the cost of distri-bution of goods in Ireland, Gainness traffic, and lines affic from Belfast, having been mised by your com-

Longs interes corryung costs, nature, etc., will be delivered tool bupper granative accessed on the proc. Transp stances and ather vessels will live an extraction of the processes of the contraction of the contraction of the way wagers for minant distribution will be loosed direct faces the liner or hipper granation. This being done by machinery at reasonable cost will certainly also be a supplied to the contraction of the contraction of the contraction of the contraction of the contraction at Lacropol. The dock datas at Gabray will be made our states and complete descriptions of the state of the complete At Depleton Aux I

Characteristical production of the control of the c

Charmen continued

Chargens—contained.

In 1855 the Government spars a stability to the Galaxy Packet Company of £78,000 per animm. That substyrections of £80,000 would pay 4 per east on £8,000,000 required to considered distancy flatform. Since their thinks has consumed your excessed, and the importal periods the control of the control o

and these eliphonous by the whit—the 2000s september in the 10 min to the woods prising Galway ap-chatteria and 2000 min in the consequence many milhous. The evidence of efficial, local and general approach all over freshold of this part, which has been the only find the control of the cont

by the Reyal Cereminous of 1994, that it is due but seek for a Tamandantap part in Robard.

The not of the proximity of Renkers Lake, which categories the prepared haven, and is complete of being mode into an ideal duck of considerable are not in the control of the mode in the notice of the considerable are not in the control of the c

A direct service between Galvary, Neudrocalization of the Mark and Industrial the analysis approximate for which are foliable with the analysis of the Mark and the Arman of the Rightlin Generation and the theoretical theor

TWENTY-FOURTH PUBLIC SITTING: MONDAY, 47R NOVEMBER, 1818, At Committee Room No. 12, House of Commons, at 4 pm

Mr. Wilson-Fox, M.P., Chaurman, Select Committee. Mr W A Lindsay, M.P. Mr Walter Hodson, M.P. Mr. P. J. Hannen

Mr PHILIP MANNETT, Secretory Sin ARTHUE SHIRLEY BENN, M.P., in the Chair.

The Right Hen–Lord Mossau, $\kappa \circ \kappa \circ$, r.c., $\kappa \circ$, r.c., $\kappa \circ$, Past Premier of Newfoundland, called in ; and Knamined.

Chairman J. Lord. Merris, this Still-Committee, spanned by the Siller Committee on Endod Transport. Description of the Siller Chairman of

wearden with the pit grow on from the Tady grow and when yet the related to the Tady grow and the term of the pit their trainers of 1 m, one will be the weard from the Tady the term of the term of the Tady that one was per pit to the term of the Tady that one was per pit to the term of the Tady that one was per pit to the Tady that of the Tady

land. It was understood or thought feasible that, after striving at Galesy, the passengers and make and light especia goods and freights would then go on train and cross by Ferry from Dulkin or Kingstown to Holyhead, and thence for distribution to any part of Great Entain. I was affectified with that project became I was subsed by the promoters of the scheme to go to Galway. Its syrup new that I invort that project, and oil Leveur On the low that I know this people, and oil force is a foot variety to be indented by a going plantment as my did not have trained by the people of the peop to St. John's, Northurnfland, via Queensteen. But their was a connection that in no way promated trade-vita Ireland. 46 Ireland or from Ireland. The service via carried out by the Allisa Line. The beats left Liverpool, and afficewords Glargow, and toocked at Queenstown. There shey teek the maths and possenapers, if these news and their word direct to \$5. Lohn's

Section of the Control of the Contro not acree whether those steamers of the Alba. Line over abadished by the Byrths (Government as har as Canala was eccurrent, or as Government as har as Canala was eccurrent, or as Government while Newfounding Government while I say have that the Newfounding Government while I say have that the a number of years we pool as high as 242,000 a year outsidy, and by Ridish Government and the while the washed of the Canada Commented the twist there unlanded it for the Ganada a Commented a factor have but them the Canada as Commented as the state that the comment of the Canada as Commented as the state that the commented as the commented as the state of the two points of the Canada as Commented as the state of the commented as the commented as the state of the commented as the state of the commented as the commented as the state of the commented as the

kore, ber I timk the Canefana Governmens substiffeed in dee Of course, these bosis carried the mails Without gening any opinion on any particular crofts. With regard to I tellar, I flathic that the service that it will regard to I tellar, I flathic that the service that the course of the course would graw you a service between Ireland and 81 John's of about four nights at on. Then, when coses the paragraph were at \$8. John's, if they chose, they could not any part of the Continuent dealty by with the wind the continuent and the service of the Continuent dealty by which the South, and the service of the Continuent dealty from Canada, or with for 20 hours while the Freight was being discharged Thousands of passengers are always gird dealth and the control of hurry might not care for that, but it is a mistake to book that everyone is in a hurry. As to the point

whether you would require a very https steamer, I don't think that that service could affeed at the start year large slaumers. I have told you of the class of both we were carried poor Sectionalized before the variety in a different to the three Arch terms and the variety in the contract of the variety of the vari bust we were running from Newfoundland before the war. In addition to the three Allan Lene busts, we command port for the Fernices Line. Last quite passi-field type last hitse upth of the bott bettern Drolled and Conside calling at Novelmedian—say, 7,000 four the consideration of the consideration of the con-trolled calling at the control of the con-trolled calling at the calling at the con-trolled calling at the con-centrol calling at the con-trolled calling at the con-c

4302 Millions of dillars. 1—Yes, I could propage a statement and send of into the Committee showing the imports into Newfoundland from Great Britism 25 years ago, and what these imports were the year before the war. There has been a counterable decrease as against war. There has been a consticutely decrease a segment Greek Batkern zoordentschiefung dass or inports in that stren know trobled. We have tuckled our inspects, and I absolute from the Batkern from the second of a blood 50 per cent, principally on account of authors the apportune and the constructive could fill authors the apportune and the constructive could fill admits the second of the second of the second of Alian Line from Liverpool to Philiodelphas went chaper than from Liverpool to Philiodelphas went chaper than from Liverpool to St. Johns on the seaso boil, on the suns roose, although 8s. Johns was over a thousand miles assert, the records being that there a thousand miles assert, the records being that them

4355 The Committee would be very much obliged to you if you game us that statement —I shall be glad to do so. I would like to my also that if the Committee

would propore any questions in relation to say part of this subject I would be very glad to maswer them, and if I have not the latest information on the master 4354 Some time upo you were in favour of establish-ing a line to Green Bay 1—Well, I invested that line to Green Ray becomes at that time an English company

Free, the other countries that would be interested, but he people above with through a fewer with through a fewer with through a fewer with the Novilesco and the people above the people of the peopl would go out in two and a half days or something like that, and it was alleged, and to some entent it was established, than that route is the least troubled with fog. In fact it was claimed to be "a fog-free zone". If don't so so far as to say that it is absolutely a fog-free but it is probably free from fog than any

4 November 1918 1 The Right Hon Lord Monnie, R.C., R.C., R.C., R.C.,

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Charrens-continued. Cherrenn—combined.

Atlantic roots. At law, the proposal came from outside, and the Newfoundard Government, hiring no fact connection, were even you gold no seaso at law 255. I think you hought stem that that me would make the contract of the contract of

thought at was would be a great been for Newfoundland though it was would be a great took for newtonnamen, and we were prepared to give a reasonable valuedy in land for the building of the valuesy and money for the carrying of the mails. I don't know whether I have covered all the pough, Mr Charman, to which you

4386 The only other point is where the banker coal is to come from 1—05 their question, of course, there is no difficulty in getting coal at the Lavespool end or at Glagore, and there is no difficulty in Halfox or at St. dollars. We always have large quantities of coal on hand, and whilst coul is not at present developed in

steamers would do such a service as that and give them assumer would do since a nervice as that sing give their a week on this side and a week on the other side While being cleaned up the steamer could be coaled

Mr. Welson-Fox. 4360 I underwind you are patting it on the basis of a weekly service!—It was a fortnightly service that we had That would be a fortnightly service. 4361 In order to get the bulk of the mail traffic a 4562 There would not be sufficient 3-No.
4562 There would have to be more frequent boats 3-ASSE There would have to be more frequent boats be-fee off course, the has to be considered as an im-pertant element as regards the forcy between Great Britain and Ireliand which to deal reality with pas-sengers, but it is not at all impossible that as soon as the war to over nextly all that kind of work will be done by acceptance. We have, as a matter of fact, a regular service to-day. Our acceptance are carrying 15 passengers from England to France I don't suppose that that as generally known, but it is a face that to-day there is a regular massenger servers. that that is generally known, but it is a fact that to-day there is a regular passenger service between this country and France, and the Civil Aprial Committee, of country and Frances, and the Ciril Arrial Committee, of which I was a meaning reported on the whole question, of evils overplace with after the way, and posted our was likely that we would have register Transactional searchest. I don't say that that will be done for many years perhaps, but there is a severice new tronsum; All Say and the search of the contraction of the contraction of the search of the contraction of the contraction of the contraction of the 4505 Don't yes think it would take many yours to get the general public so one complexes—I think they get the general public so one complexes—I think they will indept the aeroplace as quickly as they adopted the antological public man and the contraction of the contractio

4264 Then your your would be, if you wish to develop first passenger traffic in future, it will be done

by the accoplane and not by the acceleration of the railway and atcomer service !- For short distances, as between Holyhead and Kingstown, the accoplane service is almost certain to be adopted 4366 I am thinking to what extent that would re-

4826. I am thinking to what extent that would re-place services that we are now accusioned to, or whether it is only the few who would use the age-plant, because you could not have bory luggage. I suppose the luggage would have to follow by boat 4926. What we wanted to accreting, I thin, princi-pally was what chance there would be for a service of the boats with a Irish terroral norm and reasonable. pally was what course there would be the a serves or last bests with an Irish terminal pure, and presumably icoching 3t Johns, Newtoundland, making a living by the transport of mailt, passeagers and goods Pro-sumably such a service would have to depend primarily Mr Welson-Fox-continued

for its frong upon a mail sabasty; second, by a certain

year views as to the possibility of potting goods trafty in quantities sufficient to pay nock a surrows—I— can sall you this—for ever 60 years before the wer the Albin Line was regularly with three boats. They had a subtiff for a number of years \$657. But not making a terminal port1—No. 1 should suppose that sufficient freight could be worked up between the two continues—Cambada and Irithad via

4368 Now you are speaking of freight and goods !-

4369 That is, Itish produce and Newfoundland produce t.—Yes, and Canadian. It would be necessary to go into the whole matter with a view to seeing what the exports and amports have been in the case of

two countries for years which would have gone that 4570 It would be very valuable if you could go into that matter and give us a statement !—Yes, I will by

4571. As regards passengers, it would, of course, be 437. As regards possengers, it would, of course, be very largift a contract of options. In 23 yea think the very largift a contract of options. In 23 yea think the thorsonial eff people will above go by the chutter as, the contract of the contract shape had now played to the contract of the contract shape had now played to the contract of the contract shape had now played to the contract of the contract shape had now played to the contract of the contract shape had present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so have established I present it would constant them so the established I present the many than the constant of the 13 st. The states would require to be more frequent. 12 st. The states would require to be more frequent.

4375 And that means increasing the tomage—Tes-still it is important to conside why, if there was a service, it could not be assured by allowing the ship-tog on it is a part in Englished. There was the enum-thal for 10 years these eleancers going to Quisandorm near word to a part. Frieght of all Reads for Perland of the part of the perland of the perland of the per-duction of the perland of the perland of the per-duction of the perland of the perland of the per-duction of the perland of the per-turbance of the per-duction of the per-turbance of the per-turbance of the per-turbance of the per-turbance of the per-pendicular per-turbance of the per-pendicular per-turbance of the per-turbance of the per-pendicular per-turbance of the per-turbance of the per-turbance of the per-turbance of the per-pendicular per-turbance of the per-pendicular per-turbance of the per-turbance of the per-pendicular per-turbance of the per-turbance of the per-pendicular per-turbance of the per-turbance of the per-pendicular per-pendicular per-pendicular per-turbance of the per-pendicular per-pendicular per-turbance of the per-pendicular per-turbance of the per-turbance of the per-pendicular pe 4376 Neither Queenstown nor any port in the North
of Ireland would give such a short route as Galway! of Ireland would give such a short voite as Galway 5— That is so I think it is a pivy that is the past there has been too much severowing in certain British puris while other perts, which have sphendid faulities, are neglected. This Liverpool. There the bests are on top at each other. Beery fine sents to go to Liver-pool, this everyone wants to cores to Lander, and they post, like everyone wants to come to Luneau, and any pass by a port like Eristol, that at one time was the first port in the Kingdom.

4377 Is not the reason that it is the chespest thing

to do to deliver by sea to the mearest point where goods are to be consumed !- That may be se are not consumed in London. They are sent all erro

Mr. Field

4578 Would not facility of distribution have something to do with that?... There are a great many lesses that are not taken into consideration—the amount of

· Mr. Rayson.

4379 Leverpool happens to be the centre of a great industrial area and there are great facilities for dis-tribution?—Not better than Bristel or Fleetwood in 4391 The consumption of raw products would be greater from Lawrenced than from Bristol 1-Yes, but

look at the map and see Fleetwood and see the immense centres that is feeds Mr Wilson-Pop 4381. We approach this analyses more from the point of view of sector what facilities-improvements

My. Wilson-Fox-continued could be made in the general transport system for the excouragement of trade. It is no use our considering

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succompanient of trade. It is no the our considering improving a critical pulse until the war eccurrons that it would be good business for somewhat to start the tendence of the start would be controlled to the tendence of Inch heom had to go to England or Scotland or Canada, or to generature she before Newtonniland could get it. 4835. I am thinking more of the other end at this promess. You are inclined to think that, if there was 4855. I dill minimal automatic thank that, if there was a semanal part, produce weall flow out of Ireland?—Tes, and into Ireland For 70 years Newboundland has been a large importer of frish bacon, Irah lines and other linih products, but we never got a pound and other linih products, but we never got a pound.

from Ireland because there was no direct trade Mr. Howsen. 4384. You got it from Liverpool or Gingow?—You, and we had to pay the double freight and bandling

Mr. Wilson-Fan.

395. You think Newform-Ban would take a good deal of Irish products!—Yes, but I cannot say what they are. I would want to go over all our imports from England, from Genada, and the United States and other countries and find out what portion of these

d outer communications of the control of the contro foundland would foundined would seed back to Ireland "—Yes We don't have what Irelead an occurring to-day that she major get from Newboundined I am proty certain this there are meaning pode and these from Irgan, and of the Ireland Ireland Ireland Ireland Ireland Ireland Germany before the war, and purchase our cod and seal of, seer ship, our paper and our give. a statement to the Chromittee on the another, we would be greatly

Mt Lindsay

4333 You spoke of liners going into Queenstown and nce being able to go alongerie the peer?—Yee. 4359 Do you thruk that if they had been able to go alongerie that they would be able to discharge for Freinard —Vee 4500 Can you suggest what class of goods would have gone to Irohand —All I know us this. Newboardhand with a small perpulsion had a great deal of breight to go by these steamers, and we got a great deal of freight by those steamers, and we got a great deal of freight by those steamers, and it don't know why Irohand, with a population of four or five millions, ould not also require a good many things from Garasia.

and Newfoundland It would be interesting to know, for instance, what Ireland consumed in the way of Canadian produce the year before the war. This cer-Considera produce the year before the war. This certainly would go this revit.

6201. You have to take into consideration rather what

6201. You have to take into consideration rather what

6201. The have to take into the consideration rather what

6201. Operations they would have been the desire of point

6202. Supposing they were going to Belliant, for in
ratinos, would it not be cheapen to exact them to Liver
6202. Supposite — would answer that at this year, a

6203 collapsed — would answer that at this year, a

good dall would depend where the whole freight was going. If the whole freight was for Belfast, then it would be absurd to land it anywhere size VORIGO De ADDROGA DE MARIA A SER AND ANDROGA SER ANDRO

as compared with the convenience of the car-thurst. SNA 'The bends you were speaking of coursed freight from Great Birthum as well as Irvinotif---Yes 4905 My point is, was in not change to take the goods to Liverpool and to send to Dablim and Boldart on many frither than by real frees, Queenstown, to Dablim and Redisast !--That is a metion of colonisties. 4386 The rea will always bent the rull !- In most with outward goods. Guirmesses stout and whater, for

Mr. Lindsoy-continued

will best the rath, so they the goods pour freelind in each direction for a very good reason. Lam afraint that that final directions for a very good reason. Lam afraint that that The two principal centres are Dublen and Belfrath. They street an assent the beggers proporters of firstlet, and they are a long way eren the West Opate of Irstlet, and they are a long way eren the West Opate of Irstlet, and they are a long way eren the West Opate of Irstlet, and they are a long way from the to said rath by the latter boots!—Now When boots Pitch the "Marriedam." or the "Lentitum" earny on New York, it takes 46 or the "Luminia" arrive in New York, it takes to hours to send back to Halifar the mails she brought 4387 What about places like Montreal!—It would be better for Montreal to send the finiter boots, but

be notice for Montreal to send the hader books, out-there are thousands of possengers that would predom to go direct to Halistar than to go to low York. Malls, or course for places the Montreal, where the malls would go in ten hourse from New York, would be in a different position from places where of two 46 beam before the mails would be landed, but them Montreal is not Cannola, and there are a namber of people in Evitore Cannola, and there are a namber of people in Evitore

4559 I gather that your suggested service is not exactly ironally to the All-Red route proposal. They had a faster service I—Yes A service should be proand what they are entitled to whether they contributed and what they are satisfied to whether they constributed directly or not Denstres, like cities, knew been de-trausde—perhaps that in too strong a word—out of their part possibilities of development. Develophyly has helped in eee direction. These is no doubt about it 4400. The All-Bed rowle did not propose to call at 80. Johnst—I don't kink 80.

Mr. Field. 4401. Ded I understand you to say that you were aware that for 70 years there was a service between Liverpool and St. Johns!—I said that about 70 years

age chose was a service between Galaxy and Newform-land, and since that time a service with Leverpool have been practically munitamed. The Allan Line have had a service for over 50 years. 4409 From Galaxy 1—No, from Leverpool to St. Johns and on to Halifar, calling at Queenstewn in

seems years.

400. Have you had any experience or do you recombe when the Allies Line van from Galway to America's.

—80, I say not saves if the Allies Line ever performed this section. I do not just now recomber the axes

the company.

4604 Is it your openion that a service could be carried on with some Irish Western port, Galway or Blacksed Bay, as a terminal port?—Yes.

correct on with come Draft Weeker and, Glaver and St. While I man the law word could not come and the St. While I man the law word could not come and the state of the state o

and Newfoundland !-- That is right 4409. And you are of opinion that a sufficient volume

4400. And you are of opinion that a sufficient volume of tenffic and passengers would be forthcoming to snake such a lime to be traceoutfully established [—1]. Are you of opinion that passengers would perfect that roots by reason of the fact that it would be the abortion on report—the, a great near would go that way, and, of source, you have got to restrict the hit.

4 Nonember 1918.1 The Bight Hon Lord Mounts wowg no we

Mr. Field-centimed that a great number of passengers from Ounida and

from the Distod States and Norricardians are bound to Irelated in the first authore. They may afternools suri England, and thousands of pateogens have to go to England and thus not on pate to Patenza. 4411 6s you think this affects a favorable appre-turely the suitablahung much a route, partnesslarly for passengers?—Yes

4412. Have you any recollection, in 1898 I think it

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441X At that time?—Yes.
441X Haye you any ries would the Canadian
Government be likely to give any halp in connection Gostrament to meet to give any may information titus point 4415 How does Newtoundland stand?—The New

4415 How does Newtonianted stand - Line New-foundinad Government was always ready to help by a subsety. What they may do new I desente say 4416 At a former time they did give a subsidy!— Tes, at one time we paid from E15,000 to £15,000 per arnum.

4417 Have you any experience of train ferries!—

No, except of a very small one in Canada about a mile is length. The Inter-Colomal train from Halblax to

Montreal goes over the sea at one place, Point Tupper, for a mile.

403. I take at that you are rather of opinion that
hate on all the mails will be parectally earned by
secoplane, even from America? There is no question
mind but he for mind but to the mind but

a service on a commercial basel—I believe a very large recipits and passemper trade could be weaked up, and it would be very well worth an appearance from an Empire standpoint. Of corner, you much three large, fast basis for the service. Small, slow boats would strangle the subreptries of its integration. 4420 Do you believe that, owing to the develop-ment of agreelators and industry that is bound to take

Chairman 4421. Is the population of Newfoundland ingreasing?

—Net It has increased in a larger proportion then
the outlern provinces of Canada, and that increase is one entern provinces of Unitaria, and that there are not due to emigration, because in the Bast 50 years we have not had as many emigrants into Newfoundland as have settled in Eastern Canada.

[Continued.

Mr Hanson 4422 What is the population !-- A quarter of a

Mr Linday 4423 When was your census?-1911.

Mr. Hudson 4404 I presume that you expect the Allan Lens service to be resumed after the war?—I duremy it will, The Allan Line and the Fursess Lens were russing almost up to the designation of war. We have no There is only an occasional

4405. That is owing to war considered !- Yes 4465. That is owing to war combinent—Ver 4465. It gather from your evaluous that you are favoured a proof of call orther than a tennand port in favour and proof of the proof of the transport of the proof of the pr

go on to Brisco or to asses offer port we man, my, a spection of their freegits.

4627 You think if would not be possible to launch out and makes it serminal port until some effort with make to work up a connected brade 5—You. I think di such a serious as that we have launch out my the three districts are not as the property of the three districts are not as launch or many the three districts are not as launch or many the three districts are not as launch or many the three districts are not as a launch or many the three districts are not as a launch or many that the districts are not as a launch or many that the districts are not as a possible to the districts are not as a launch or many that the districts are not as a constant of the districts are orantries interested in the nature of a subsidy increase and develop itale within the Empire. it increase and develop train within the Empire, that, after a few years, you would be able to reduce that assistance considerably 4428. The service would be supplement main services that are now working?—Yes

Mr. Wilson-Pox. 6629. Do you think, as a result of what has been 4639. Do you think, as a teeml of what has been taking place during this war, that the passenger and goods traffic between the United Mingdom and passed traffic between the United Mingdom are considered to the passed of the pa

4430 We understead that We are very much childred to you for the information you have given as and the statements you have processed to send us?—I am only too delighted to help if I can

Sir Frances Fox, M. 220.0.2. 56, Moorgate Street, London, S.O., one of the Engineers connected with the construction of the Mercey and Simples Turnels, called in; and Engineer Chairman-continued

4431 Yeu are a member, Sir Francis, of the Institu-tion of Civil Engineers I—Tes, \$10. 4402 And you are a member of the firm of Sir Douglas Fox and Patters II—I are 4633 You had a good deal to do with the construc-tion of bunnels I—Tes. I suppose I have been consulted the question of the proposed trained to Ireland. I know the various routes that have been suggested for and the various rooters have been suggested its free containing, and have conformed with my brother, Sir Duoglas Fox, and the late Mr. James Barton on the subject over a period of some years. First of all, in order that your Committee may be able to form some idea of what has to be done to secure that compriments flow of turnbuls — I'es: I suppose I have been consulted, short an great a mileage of turnels as anyone 4624. You constructed the Suvern Turnel — No, but I was one of the engineers of the turnel under the Mersey between Levepool and Eirhenhard. I was also the English prepresentative in connection with the conseed. The first spin I would reder to it the Merry Finned and in the river I knewpon, II, that case the maximum depth of the river is about 100 test, and the depth of the purpose which is 100 feet, and the depth of the purpose which is 100 feet. A draining booking was circum on both rides at a depth of 170 feet of the rivers of the rivers of the rivers of the "feeters" and the goological conditions. The larguar springs—and I think this is an antice of greet interest to year formation—count frees the least. The bells of the water did not once I must have, but from the stenction of the turned through the Alp—a truned 124 miles in length. It is the longest land turned in the world. Of course, there were very great difficulties that we had to content with and I shall were

briefy refer to them

4435 You have also had something to do with the
proposed Chunnel Tunnel 5—Yee, for a good many 44%. This Committee are very arxious to have your views as to whether it is feasible to have a tunnel to Ireland!—Yes I have devoted much consideration to

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Chairman-contianed the land, not from the river. As we drove from shore

to share we encountered a number of springs which we also previously not with at the shall, and which and previously not with a the shall, and which with the shall previously the shall be shal supersecte to tell its writtener the meaner would get submitted with the body of the rook would get saturated with clay, by which means the "fifters would get choked," and these would be a diministration in the feeder. The result is that in 50 years the total feeders, locks. The result is that in 30 years the total feeder, which were 7.000 galline ge amust when we begin, are now 5,000 gallines in munite, so that three is a reduction of a thousand gallines per minute does to the "choicing of the fifter." The total pumping power is about 18,800 gallines per minute, so that we have something the three times more power than the first three times above more than the axe ionizating locates into acceptant in principal problems to have an ample margin so thus in case of a unit invading down yes have sconding to put on Those is a danger to life in the driving upfull of an experimental heading unless "sugle shafes" are provided. We began by sitting a vertical shaft of the experiments descring united a value small, also place where described and there does not be maximum depth, and dress up or an ascending gradient of 1 in 500, res there is a thorough a small sm the water and the first part of the control of the difficulties had, hawever, to be encountered I also produce sections and drawings in connection with it. The turnel was drauned by gravity. There was a lake

and blow the great drills out of the rocks like rockets 4477 Was the lake above you!—Yes, nearly 4,000 feet above us. In the thornal sons we encountered a temperature of 151 degrees in the rock and 117 in the water that come m., The hydrottatic pressure was so

wates that come in. The hydrostatic pressure was so read that you could not step the water, and to this day it is allowed to flow freely area. 4438. If you had not been able to let if flow you could not have done anything !-- No.

Mr. Houses 4459 You would have to step the tunnel?—You. On the Swiss gade the gradient was 1 m 500 and on the Italian 1 m 14X. The total feeders in summer are—

Mr. Huanos-continues

water 17,000 gallons per mirute and hot water 4,500 gallons per mirrate. The maximum speed of construction was 57 feet as a day. I shall next refer to the recovered Cheanel Terms between England and

so the proposed Chemid Timinal between England and France, in connection with which I hims in a large-infanal section. It is the turned that reased not greet discussion about the question of multilary pressu-tions. I give a lecture on the subject of the turnel between the Hoyal Geographical Society, and I hand in a copy of that fecture to the Committee, who may find it interesting. If you turn to page 2 yen will see a diagram, and it is described on the section, abouting a "water look." I would like to say that I had no idea "water look." I would like to say that I had no size that Leed Sychema And perposed exactly the same shing, and therefore when I put it here he vary natu-mitly thought it was copying lies. If was an unature traint commission in the color of two another has were Leed Sychemism and not to me. In the case of the Channel Tunnel the total length under the case 26 males, the greatest slight of water in 190 first, the lowest depth of reals below injuly nature as 295 feet, and the pullwater posseure is about 160 his to the square

inch. 4440 Only 102 lbs. 1—Yes, nor Assuming the con-struction of 160 feet a day at each face, to orivince 12 miles the period of construction would be 32 years; assuming 50 feet, the pasted would be 43 years. Now we come to this proposed turnel to finished. Un-fortunishly, I have only two copies of the plans. Thus are the feet period with the property of the plans. Thus

No. 1 No. 2 No. 3 Route Route Route Length of tunnel engeli or under see, reiles ortal length o retites Length of headings not Depth of pumping shaft, fish side, B. Depth of pumping whaft, Scotch side, fi 740 Longth of railway to tions, railes Maximum depth 71

water over tunnel, ft 506 These compare with the Channel Tunnel between England and Propes as follows --Langth under see, 94 miles. Total length of tunnel, probably 30 miles. Depth of water, 160 Seed. Hydroctato hand, 199 lbs per sq. inch.

There is no doubt that the construction of a tunnel under the Insh Channel is a much more difficult matter corder the final Chancel is a much more difficult states than the one ander the English, Chancel in concessors that the concessor of the Chancel is concessor to the concessor of the Chancel concessor of the Cha

806

4441. Which of these lour routes do you think is the most practicable 1. Tou have asked me a very difficult appearion. In the case of No.1 route the maximum depth of water over the tunnel is 505 feet, whereas X No. 8 route it is 884 feet. That is a very great

6462 What is your hydrocality pressure-1—About 485 like to the squirer inch 4443 Only 455 like. 1—Ex; that is provip kingle. That is one of the great problems that would have to be solved in the case of the inth Tuzzel. 4643 Ij II solvable—Yes, I think it is Machine the a shorter contribution of these four

Mr. Honor-continued

I have mentioned I am not m a position to any, although I am told that there might be a shorter line from the Grant's Concerny to the Mull of Centyre, but if has not been examined.

Mr. Liszbey I R is quite useless. It would be lenger in time than any of the others, though shower in distance. It is only twelve miles from lead to land, but

Mr. Field

4445-6. It is out of the way, Sir Francis !-- Yes. I just gave you the facts in composion with the rowles-

I rente the depth over tunnel is 506 feet and in No 4 at as 894 feet. our Lemmey.

4447. What is the pressure?—In dealing with pressure in a turned yet must deal with it is one of two ways. You must either let it flow by gravity, and then

ways. You must either set if flow by gravity, and them you would have no presence to your liming or brink work; or you must attempt to stop it, and in that event you get the full hydrostatic pressure, and there-Mr Field.

0643 You are speaking of the water that comes into the tunnel 1-Yes 4499 It is quite leasible to have a termed to Ireland i —Yes. If don't think it is really impossible, but what I would suggest as that it might be very desirable to try the experiment I would not advise constructing

4450. Do you mean a dramage tunnel?-Yes, end the shatts and cities the dramage possiting from saca-cale. In effort to de that you would prosteally have to drive two bendings—on upper and a lower. 465: Weeld that he a very expensive matter is—it would cost a large sum of messy. Her much I should not like to eay. I do not think you would get any contracted to maintake this work for a lump sum.

I binks it would have do be done as an Imprestil matter, but finance is not ny department that terms at the do-better when the state of 4653 It would mean a matter of cight or ten years in the case of the Irak Tunnel!—I should think you could do it in seven years. Yen could drive a heading from shore to shore its seven years

Mr. Wilson-Fee 4484. Not the tunnel, but the heading !- Yee,

Mr Hanne. 6455 The smallest depth on any of the proposed four routes suggested in this measurement is 720 test?— Yes. 4456 That would give a hydrosiatic pressure of 313 jest to the square inch i-Yes. 4457 Do you think you could introduce any mechan

the tunnel !- Tou could do so.

Mr. Wilson Faz. 6468 Before you carried out the conventing process you would have to check the pressure with a very strong steal liming 2—Yea.

4463 And you would puck that as you went in !-My. Field.

4464 You believe that this tunnel could be con-sistented if sufficient money is spent on it?—Yes, I would be willing to make the attempt myself, if the Government provided the money

Mr. Wilson-Pox. A466. The consent process has opened up possibilities that did not exist previously!—First is so. For the last 39 years! have been using the pocesson in one form or another. It was unlocated by Mr. Greathead with great secons. You would have no transles in Leading the ensure process had not been adopted. It makes the content process had not been adopted. It makes the content process had not been adopted. It makes the totos watercagnt

4456 Here you addied the information that is
arealistic as regards the prological strata in reutro
No 1 and No 25—Not beyond that paper of Mr.

Bastonje
4467 Would the first present any special difficulties

—I think you could get through the elleram condect hIve to adopt exceed:
4468 In recoding Mr. Barten's paper I was rither
surprised to find that he estimated the cost of the
surprised to find that he estimated the cost of the
sured only as eight millions. Do you thank that is
an optimatic estantial—I should thank so. I should
not like by under an estimate for surplung newed ages
4400 In preportee to the whole cost, the libourbill is so the cost screens miller I—No, except that

4470 I suppose the eight millions was not for a double tennel —It was fet one. It is far better to make two engle teamels then one double.

4471. With the single tunnels sode by side-50 or 60 feet spart?—If you turn to that section of the Simples tunnel you will see that there are two tunnels side by 6472. When you spake of constructing 115 yards a day in the case of the Morsey Tunnel, did that mean from both subst. Yes, double that.

both sides — Yee, doubt this.

4475. The rule of progress depends on the hardness
of the nation at 12–41 you get a proper drill you can get
through a fourly hard rock as quickly as anything
4474. Has the proceding mackinery been very much
approved — Ob, you I would like to any that I am
a very strong advocate of never working on Strately
Independently of the question of religion—though 3 with the construction of the Landon and Grant Credital Realizar, my brother and I were supertiteding the construction of a transch, and in the contract way into on Studies were principle measured by the Contract on Studies were principle measured by the Contract of the Contractor and to me, "I wond you to expange that claims: you will lose time if you don't have Sensity work." I said, "No. you will save time! we will see corpusing the claims." The same mass also undertook

contract there was a clause to the effect that Sunday work was to be done, and it was done. When both transies were finished be said to me, "The suppression of Sunday work on worr turned saved me turn, because on the other turned the men, on Monday morning, cases bock i.eed and mufit for anything, and the horses, and even the machinery wanted their day of rest".

Mr. Wilson-Pox

4475. If you had so drive a double turned would if mean double expense—No. It would, of course, be more expensive than one suight stants.

4476. And the others of Mr. Berien, was that for a double turnel?—Yes 4477. And it communed fairly closely to what was the orienal estimate of the Charge! Tornel !-- I compoanswer that ...
4475. What is your estimate for the Channel Turnel?

H's impossible to give an estimate.

6461. In that vertical presence !- Yes

4479 What

4 November 1918 1 Sir Francis Fox.

4479 What was your pre-war estimated—I don't carry the figures in my mind now.

Mr Hudne 4480 Dol you give a reason why you would prefer two nargie tunnels to one double!—in the case of decalization in a stagle-line tunnel, you would not got

4481. Is there anything also in the point of strength !

4465. You awa Managing Devector, Major Mailhaut Kanago, 4th the Ganadian Facility Octon Bertrion - Yes Sharing Managing Developed (1994) Albania Bertrion - Yes Sharing Managing was served - Lawa and 6 38 possagos arrows the Atlantic - to find out from yes the 4461. We are very assigned to find out from yes the 4461. We are very assigned to find out from yes the self-control of the 450 period of the 1994 of the

at Queensiters for passingers only.

488 Do you think that affect the war your company's wassin will resume calling le-Yes. Certainly on the Notth of Ireland.

4489 How do you find Monille 1—It is a fair port for 4459 How on you me-cularizing by tomics.
4490 Would it be possible if there was a deep-water both at oan of the parts in the North of Ireland for your vessels to call regularly 1—I don't fluid that it was resulted to the property of the

your younds to call pregatorly—I don't fitted that it would be worth which haven quarte green green made. The world have read that have quarter green made. The course of the read to be worth which it was a first fitted and the same and the Treinant could only be used for passangers and mainla-ves, for passangers and seed male or bleen english be. Local main from Bullets could gas so the majes be. Local main from Bullets could gas so that the could be a Vos. Persectory and the could be a compared to the could be a Vos. Persectory all our stemoors carry passangers and most of them main. Too or 11 years ago there was a solvene generated to man a servere celling a Galware to some gent in Counda, and it were dots it at that time every couldy, and I think it was destinately

Mr Housen 6695 Not feasible?—No, because the average Atlantic mail would arrive in Leverpool and leve passenges and gaffs in Lordon nutch more speedily commuting the call. If you are running fast mails, the yieu is not to call for the senabley part of the

Mr. Wilson Fox. 4935 Your view is that there would be no caving in time if you called at an Irish part for mails. Your room is that this mail could not be noted any later to

Mr. Hounes, 6496 As affecting the Noth of Deland, but not Queenslown?—B was distinctly proved by the Cenard Company with their last services that it did not necessary the male to call at Queenstown

Mr. Wilson Fox. 4407 Could you not post a letter later in London for America of the best called at some port in the thin or South of Iredand, than if the mails were made up at Leverpool and left from there —No. You could pass later and delay the boat.

Mr. Hadson-centinued. ... There is. You have not got the same vertical pres-

suc. Mr. Limbuy
4462. This sabmute of Mr. Barton's was made when
electrical haulage was not so well known.—That is so
4435. Electrical haulage would refuse the cast!—

4434 Mr. Barton did not contemplate that !- No. Chairman I We are much obliged to you. Six Francis,

Major Marriago Krasty, n.s.o., Managing Decelor of the Canadian Pacific Ocean Services, called in; and Mr. Husnes.

4488 Not at Queenstawn. 1—No 4499. They did pass later and special teains were

4500. It delayed the whole of the marl?-Yes. The

only saving was that a bearness man in Loudon could have posted his letter a little bit later than the deparhave posted his retter a filter too faster than war waper-ture hear of the present part rain—two hours. The foot is that his letters would have left at 2 in the after-soon. He arranged his letters for the particular steemer, and these no so many malls a week that they had a very fine mail service before the war-encluding by the German line from Southarenton.

Mr. Horsen 4500. Calling at Queenstown did not give a clear weeking day in England !—No, nathing like it. In addition to the mail service, there was a great tendence before the way to develop wack-rid cabbu and latter-cables. You could send 30 weeds for a mere nothing.

cables. You could send 30 words for a mere nothing.

4922. Is it your considered opinion, with your know-ledge of the transport of malls, that a post of call of may kind in Ireland would not be an advantage? Yes. Mr. Londson.

A503. Before the Curand people gave up their call at Queensidees on the ortward joining, a location man could past up to 2 s'eleck in the afternoon in London on a Saturday I—Yas. 4504. When they gave that up Saturday was knocked out allogather as a postal day, because the mail trails all Nation at 12 o'clock and better had to be posted. left Eurikon at 12 o'clock and letters had to be posted st 10 o'clock. That is, of course, no me from the braness man's point of 1900 1—19 ne very little braness man's point of 1900 1—19 ne very little braness man's point of 1900 1—19 ne very 403. There is a cortain movem of busining besidess Leverpool is not a place you can sail very rapidly from. Tou are dependent on the tides 1—Paccountly, you are

what is the conside duty in-Year little Stone of the enter log dutys a might be divised an horizont of Stone of the enter log dutys a might be divised an horizont of the Stone of the enter log duty in the enter log duty in the stone of the

advantage.

4509 You gained a white humanest day on Sahatifur by the mails going to Queenstown!—You could prest up to most of Sahatifur has been also should be supported to most of Sahatifur and each tip most all Livrospech used, and the company neers toude a classific free calling at Queenstown might after the press 1—1 think they were robber found into the contract. I have no best or mails to speak liet the company, but I know they were very pleased to get out of calling at Queens-

town
4511. In releved them of a certain responsibility.
What you visy is that the North of Iroland post affects
were next—The best gender of the Livespool and Glasgov stops us to go with the North of Iroland and the
Senthere povie shape, go by the Footnot
6512 Quescritorn us no use for you. You never this
count is an a pirit of cell —Some of our boats called,

4 November 1918 1 Major MATYLAND KERSEY, D.S O. Mr. Landsey-continued

4513 Your printipal port was the North !-- You 4514 Movelle would be of no use as a mail port !-- No.

I should think not

4515. If the acceptance service is developed and ma and taken from a part of call in the North of Lieland, do you think that boots would call there!—I don't think that the carrying of heavy weaks by ascoplane is a feasible proceeding. You might see sees or fog. You a feasible proposition. Too might get serve or fog. You often have a led of tog off Inchizal, and as actophate could not fit through. It is quale irrue that a super Handley-Page secreplane could possibly covery 15 most, but we have perhaps 600 or 700 measurement tone of main or a stup. We accretizate here 10,000 bages, packages and battlets of main in one stup. They you

could not get into any arroplane.

4516 Was that weight of mails pro-war "-- Yes, the neatity. The mails come down to Leverpool from largow or London or elsewhere. They are stowed in

the mail rooms the night before salling, and the count has a large quantity of mails on board before leaving the decks. The final mint train comes down to the

[Continued,

has a large quantity of mails on board notice texting the decks. The first mail team concer down to the Prince's Leading Stage. 4517 Ward in the weight of these last mails 1—Byth, or 40 team measurement. I do not think the carculates as feasible in commotion with the Adastic multi-series. The Newtoniad down

Choirmen I We are very much collined to you

(The Sitting then concluded,)

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(d)—Statement as to Royal Harboure

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STATEMENTS handed in by Str John Purser Grafith M.A.I., M.Iret C.E., Ra-Chief Engineer, Dublin Port and Docks, during his Exemination on 9th Sopember, 1918.

(a)-WESTREN HARDOURS OF IRELAND.

An Econier into the austability of various Bays and Estuaries on the West Coast of Ireland for the formation of a Commercial Port and Naval Base.

The need for a western port on the west coast of Ireland, suitable for the landing of the transatlantic mails and high speed passenger traffic, has long possiped the consideration of the British Government; and the problem of transatiantic communication has been considered by Commissions and Committees specially ancolrited for the purpose. Much valuable information was collected; but the conclusions arrived at in the soling wassals, are now of much value, and the needs and problems to be considered must be reviewed afresh

The present war has brought heme to us in a marked manner what losses we have suffered by not having an efficient port on the ware coast of Ireland. Such a port should fulfil the functions of a navel base as well an emplois port on the west come of freezes. Some a port incide routes in time of war, and also be expande of In Ireland there are only two principal hanes west of Queenstown where the fleets can rendervous-

Berehaven in the south, and Longh Swilly in the north. Between these points along the western coast there see four internal beys which are form time to time frequented by our results—marry, the fiver Schamon, Galway Bay, Killary Bay, and Basteed Ray. These are meetly internal readitions, without accommodation for the berthage or rigation of large weeks! Everything in the nature of the equipment of a part is

waning.

The experience of the present war is that this coast offers facilities to as enemy to land arms and men
which must not be allowed to continue. Ireland cannot be allowed to become a hostile been against Great Britain. There is little doubt that Germany would have done her best to accomplish this alm, but that their flort was impresoned in their own parts by the vigilance of our Navy The losses from submirine warfare which our mercentile marine has suffered have drawn attention to

the importance of being shie to and foodssuffs on this ceast, so as to reduce the risk attending inaugation of the contracted waters of the English and Irak Channe's A Commission of inquiry visited this coast, and has been found necessary to convoy feets of recess carrying teeps, nomition, and feed, and it is obviously important that these convoy r uses should be as sheet as peached, thus reducing risks and freeing

termage.

The advantage of a western part for mail and high speed protonger services is one of growing importance.

The advantage of a western part for mail and high speed protonger services in one of growing importance. to the Brutish Empire and America, no fess important to those countries in time of peace than in time of warso an extense nergate one America, no see important to more commons as some species with in time of war. The development of a Canadian mail service from the west of Ireland to such a north Halifax, reducing the ocean passage to by days, would be of unted advantage, and would unquestiously develop express freights.

The economic advantages are very great. The vessels engaged on the American mail rentes tend.

The economic advantages are very great. The vessels engaged on the American mail rentes tend.

steadily to increase in size, speed, capital cost, working expenses, and maintenance. It is not an exaggrated orimate that each voxel would make thirty per cent, more crossings per annum from an Congression or the west coast of Ireland than from Liverpost or Scattempton.

The earning alarmed par trip for an efficient port on the west coast of Ireland may be summarized. as follows :-

1. Saving in interest and espital cost of ships. 3. Saving in the wages of the crews. 5 Saving in delays from channel mylgation and fogs

The passage of the American mails and passengere through Ircland would, in our opinion, be of great advantage to the country, by keeping Ircland on the principal thoroughlare of the American and Canadian trade.

Commun cross.

Too much emphasis cannot be laid on the importance of keeping Ireland on this thoroughfare, and of passing passengers and main through the country. It would bring Ireland into constant touch with the other world, and reclaim seems of the migrouss offette of the inputs position. Viscount Morley, when Chief Secretary for Beland, spoke arroughy on the desirability of retaining the prompt of the American multi through licetual. His words were — 'Do not let finduced be practed of the great high read between the west and cast." He followed this advice with the following wise weeds — 'Bo not

of course this, like everything else, is a mother of business."

We think the meaning or this sentence is that we must prove to England that it is to her advantage to munitant the American Statis Service through I referred. We must prove that treshed pressures a site for a resisten port, which from its geographeal position and matural advantages is outside as a territor per service designed of the American Mill Service, and which cannot be batten by any Regickle provided to the contract of the service of the serv

The harbours of Ireland whose fitness we propose to investigate for the combined purposes of a mail and passenger station, and naval best and commercial peri, are the following :-1. Blacksod Bay.

4. The Stamon Estuary. 5. Berekaven 3. Galway Bay. Valentin and Dunmanus Bay, although they have been suggested from time to time as terminal ports or

ports of call, do not seem to effer many advantages. valents, although now a rule way warmfolges.

Valents, although now a ruleavy tearinum, and the most worten harbour in Europe, has an extensely had entenance, and its not sumakly stantage group that any favorance in the morth of Ireland and Souland, and a lado very Bintlet in doop water area.

Dunuasius Bay is very exposed to the prevailing wasts, and would require expensive shelter works. In soldition, is as even less invocarbly attented for northern teaffic than Valentia. Let us now consider the relative advantages and disadvantages of the six above-mentioned harbours

under the following heads: 5. Naval Base and Commercial Port. 2. Farility of Approach

6. Camerty for Development. 7. Farilities for Bunkering, Commissarias, 3. Shelter and Resears.

BLACKSOD BAY.

1. Depth and Area.-Blacked Bay, north of a line drawn from Blacked Pric to Kanfralta Point continues only an area of 1,213 acres cutzede the seven-tathem line, and even this is curtailed by a patch of 3 acres, having a depth of only 6 indoors. No doubt this could be dredged, as could other portrons of

2. Familie of Approach.—The Irish Coast Point (fifth edition) describes the entrance to Binchard Bay as follows (see p. 436) -

"The entrance between Duvillanamore and Saddle Head (the north point of Achill Island) is about Include with, with a depth of 26 inthous, and is easily recognized by day by the hold promonetory of Achill, and as night by Black Book light, standing on the north side of the approach. With westerly winds a heavy swell rolls through the entrance, and in bad weather it breaks on a bank of 8 fatheons

that lies three-quarters of a mile southward of Davillaunmore. As regards soundings, the I rule Coost Pole says (see p. 446):—
"The soundings on this part of the coast will not give the seaman sufficient warning of his approach to danger in thick weather, as deep water is not with at no great distance from st. Between Achill Hood and Erric Head there are 50 fathems at 31 miles distant, and 100 fathems at 13 miles.

necessitating a vigilant look-out, and a frequent use of the deep-sea lead, when endeavouring to make

On Black Book there is a very fine revolving light with a red sector to clear the rooks and islands north-ous of Black Book. There is no log signal at this station.

Extract from the Admiratly Shaling Directions, First Count Pulse (see p. 436):— "Blacked Bay, one of the finest hays on the west come of Ireland, is easy of access, and affects

source anchorage for a large number of venuels; it was a lways a principal tenor of He Mayady's singe stationed on the equat, and one for which they never heritate to run in bad weather. The hast sheltered parts are, however, too shallow to admit vessels of heavy draught, but a secure roadstead is afforded to these on the western side of the kay southward of Ardelly Point, sheltered from the violence

High water, full and change, at Blacksod pier, is at 4 h. 55 m. Springs rise 114 feet. Neaps, 81 feet. Range, 7 feet.
Wind has a marked influence on the height of the tides, south-westerly winds russing the mean level.

while northerly winds depress it. A rus of 14 feet was observed with south-westerly winds, and a similar fall sites a continuous of northerly winds. The anchorage for large vessels is distant 15 to 25 miles north-east 2 east from Blacksod per lighthouse, on a bottom of sand over day.

3. Skeller,-As will be seen from above, "with weaterly winds a heavy swell rol's through the entrance, and in had weather it breaks on a hank of 8 fathous that But three quarters of a mile southward of

4. Position of proposed Port -- Blacksod Bay is situated on the 10th degree west longitude, and is at present very remote from railway communication with the rest of Irakend. In order to form a suitable connection with the Irish railway system a line would have to be constructed from Blacksod Point to connection with the form formers system a first would have to an communical flow finished rount to Collosory Jonessee, our Ballium, a distance of about 88 miles. This line would have to pass through a very harren and thinly populated district. At Collosory a junction would be made with the Midhad Great Western Rathway for Dullin, as Mullingar, and to Bellatt, say Emistiliae, Classe, and Portadown. At

Ballims a compositor wealed be made with the west and south of frohed, sie Athenry and Limerial.

The distances by rail from Blackerd Point to various Irish ports would be as follows — Dullin (Channel Ferry)

295 do Rosslare Harbour In addition to the construction of 85 miles of new railway from Ebakaod Poins to Collectory, the Slige, Lettrien, and Northern Counties line from Collectory to Emiskillen, a distance of 44 miles, would have to be reconstructed to render it suitable for fact traffic

5. Novel Bear and Convermed Post.—The area of deep water available under shalter in Blacksoft Bay is too limited for an anohorage for a large deet of veneds. Should to be used in time of war as an emergency base a large area would be requisite, and the port about the capable of extension, which appears a race difficult problem in Ebakerd than in other suggested ports, on account of the length of pers required to reach deep water, and the extensive reclamation meestery to provide ground for port

6. Copacity for Decelopment.—Bischood Bay, though having advantages as a port for mail and assenger service, is not surable as a site for a commercial harbour or trade centre for the west of

It is remotely artisated from all existing sentres of commerce, and in a burren and thinly populated a remove response from an exemple concess or commerce, and no a correct and thinly populated distinct, which is unlikely to develop to any great extent. The only possible atte for besteror works in at the externe end of the Mullett Pennius, herebring a pursey of eleven miles nonthward before beginning to go cost. The water-complete the Elected Ferr world appear from the fruit Cost Pilet to be excussed; binned. All things exempted, it appears to be very conprobable that a harbour in Elected. would be of any advantage to the country save as a mail and passenger terminate.

7. Facilities for Beake ag. Commissionist, and Repairs.—At present there are no facilities for bunkering, commissions, or regains. Everything measures, for the catalonisms and working of a transmissionist station would have to be provided. Coal or of for bunkering purpose would have to be imported and stored as it would for any other Irish perc. Community presents contribute in Eludorol or everything would have to be brought from a distance, as the owner's around would not be able to farmed the necessary

suggles A repairing establishment would have to be resintained in this remote distinct, where it would be difficult to retain good workness and replace them when required. There is no local or coasting shipping

repair work which would help to maintain a repairing establishment. A new town would have to be built be accommodate the large staff and their families employed in sching such a transmission is also on, and proper markets arranged. The would involve the importation of all supplies from a detains, and, as before stated, the nationapply seems offered as

After reviewing these various points carefully, Blacksod Bay does not appear to us to gossess the requisite of antanages for a transactionic station, a naval hase or commercial port, nor does it appear that the hope ontiay necessary to build and equip and maintain a port there and construct the proposed long line of connecting railway would be advantageously spent.

KILLARY BAY.

Depth and Area.—Killary Bay is situated about 9 degrees 50 feet west longitude, and is thus
described in the Irish Coast Field (see pages 617-618):—

"Killsey Bay, a deep and narrow inles, running in first in a nonth-easterly } south, and then eastsouth-east direction, between high mountains for Sh miles, and varying in width from 12 to 4 cables, affords good anchorage throughout, and is easy of necess with a stoamer or suffing vessel wind; but from its contracted width, and the baffing winds to which it is subject, it is best adapted for

the former class of thirt the sormer case of stop. It is high water, full and change, in Killary Bay, near the entrance, at 4 hrs. 30 mins. Springs rise 124 feet, maps 94 feet. The tedal streams in the entrance run at the rate of half a knot.

Famility of Approach,-Of the approaches to Killary Bay, the Irish Coast Pflet says (occ page 400) -"The court north north entward of Siyne Head presents features similar to that south-eastward of it, being much indented, and in far as the entrance to Clew Bey, a distance of twenty five miles, is fronted by ortlying islands and rocks. Of those, Imishtark, Imishtoda, and Inishturk are conspicuous. On this coast are compressed the harbours Childen, Cleggan Bay, and the Killarus, with several creeks

where fishing boots and small craft find shelter. Numerous dangers, however, impade the approach to them, rendering the energies of extreme conting necessary to ensure their safe navagation.

"The depth of 30 tableons will be found about one male westward of both Styne Head and Invelocuele, at three miles from them there are 61 fathoms, with irregular soundings of from 52 to 65

" As twelve miles from Insishark there is a hollow with 74 fathous in it, which appears to extend between the parallels of Galway and Clow Bays, with from 7 to 11 fathers more water than is found on either ade of it. On the parallel of Insheburi, and wenty usine westward of it, the depth decreases to 61 fathons, from whence it increases regularly to 100 fathons at thirty-six radio from the shore. A close attention to the deep see lead, and comparing his soundings with the chart, will, therefore,

^a A dono attention to the doop see lead, and comparing his sourcings with the clear, will, therefore, much be seemed to plug of the progress convant its shader. In third weather it would not be predent for him to come into best than 67 faithous lefton him position in well successioned, so that of gob is frond a five minds from the rocks, and also is observally made seemed, which is a five mind from the rocks and also is observally made seemed. See . The somethings however, bosons of the seemed to be a seemed to be seen to be seen and the seemed to be seen as the seemed with the top of the seemed to be seen as the seemed with the terrel rock plant of 2 to 12 thehom of writer, our which we recognize the seemed to be seen as the seemed by the service of the seemed to be seen as the seemed by the seemed to be seen as the seemed by the seemed to be seen as the seemed to see the seemed to be seen as the seemed to be seemed to be seen as the seemed to be seemed to be seemed to be seen as the seemed to be see the sea breaks in westerly galor Killary Bay is at present unit and without for arguals, and although it has been used on occasions

by His Majordy's fact as an anchorage, to render it safe for navigation at all seasons and occasions, a very 19 ALSO IMPROVED REAL OF SERVICE OF THE PROPERTY OF THE PRO water in Killary Bay is ample, enzying from seven to twenty one fathous in depth at the site of the proposed terminus, with no shoals or rocks maids the entrance to the Ray between Black Rock and Dones Island.

3. Sheller.—Once inside the entrance there is complete shelter, and at the site of the proposed works American marks the same are the same and the into account the railway, and the lights, huoys, and fog signals to be provided. 0.178

4 Position of Proposed Port,-The position of Killary Harbour as regards communication with the Irish milway system and the various Irish east coast ports for cross-channel ferries to England and Scotland is much more suitable than that of Blacksod Bay, is noted more suitated than some or necessor pay.

The construction of the Galway and Clifiden Railway has brought Kilkary within on miles of the railway as Recess, and the connection of Killary and Recess by rail presents no outgenering difficulty, being

through easy country. uga essy country. The distances by raff from Killary to various Irish ports would be as follows :--177 miles. Dublin (Ferry) 365 ...

Rosslare Harbour -

237 ... 5. Nassi Base and Communical Part -Killery esold be developed to any extent as a maral base. disadvantage which suggests itself in the extreme narrowness of its entrance-900 feet-which might be some muchance he blocked by enemy action As a commercial port, the barbour, except for its remotences, could be easily extended. No kreakwater required, and wheels and quays could be constructed anywhere along its southern shore from

Decryasoliggen westwards 6 Capacity for Development-Killary Herbour is situated very far from existing centres of trade, and the surrounding country, like that round Blacksod Bay, is barren and mountainous, and it is improbable that it would ever become a trading centre.

7. Facilities for Bunkering, Commissional, and Bayes a -- Sites are available for fuel depote, but as regards commissaries and repairs the same objections exist as in the case of Bischood Bay.

GALWAY BAY.

Galway Bay is situated between the 5th and 10th degrees wast longitude, the most favourable site for a deep water harbour in a being about 9 degrees I2 inches west longitude on its northern shore.

1. Depth and drea.—There are no outlying thesis or recis mode the Arma Islands until the Black Book and Margaretta shoul are restrict. The case of the lay for novigation purpose is sample, buing a bine in with the even Black Bend and the north shores is the neighborries of Spiddal. High water, this look dungs, as Oslowy Bindson: as at 6 ins. 35 mins. Ordinary spring tides rule 14/2 feet, nearly 1 feet. The June 14 one 2 feet are 14/2 feet at reaching the size and other consensably are

22 feet; this has occurred even at neans." Facility of Approach. The Fink Gaze Felor says.—
 "The Cross between Loop Head and she entrance of Galway Bay, 33 miles north east by east, and

forming Mal Bay, so called from its exposed aspect and reco-bound atores threatening distriction to say vessel cast upon them, is generally of suddente elevation. Sailing vessels must at all times approach it with caption, as the heavy Atlantic swall outs towards it with great fury, and there is no safe anchorage throughout its whole extent: "The depth of 50 fathoms will be found at a distance of 12 miles from the above, and that of

30 fathoms at one mile from it, with regular soundings, over a bottom of rock, gravel, and sand. In thick weather a reced could not approach nearer than the depth of 50 fabring feep, and must in thick weather a reced could not approach nearer than the depth of 50 fabring feep. I see that the depth of 50 fabring feep. I see that the depth of 50 fabring feep. I see that the depth of 50 fabring feep and fabring feep and fabring feet and fabring

"The depth of 50 fathous is found 2 miles westward of Skird ro-ks, and at less than one mile from Slyne Head. Sown miles westward of the Skirds there are 55 and 56 fatherns, and at 11 miles from the stree of land 22 fushborn, generally on rooky and comes general. We stream or thyre Book, at the destance of a mile, the depth is concern to 86 febrors, and two makes further again decreases 102 fathors, while receive from 50 to 25 fathors, while receive a mile, again chosing to 60 to the sections. So that is consecuted to the contract of a mile, again choicing to 60 to the sections. In thick weakler, there is a mile of the section o

"Galway Bay may be comeloured as included within Golam Head on the north, and Cape Crogga or remity of Moher elifs on the south, distant from each other in a north and south direction about extremity of 31 maies. Near the middle of the contrarce he the Arran Islands, cocupying a mage of 14½ miles, and having at either and navigable sounds from 85 to 4 miles wide, together with smaller comments that separate the salands from each other. Although possessing several sing creeks adapted to small visuels, Galway Bay affords no well-sheltered anthorage for large ships

The approach from the ocean to this deep and sparrous miet is easy and well defined; while the magnificent natural breakwater of the Arran Islands serves as a harrier against the heavy swell of the Atlantic Ocean, which would otherwise red in with unbroken visiones to the very bead of the bay. The shows are moderately hold to, and there is no danger near the fairway until within 4 males of Monteen Island Light (see p. 345) "

Galway Ray is at present devoid of any fog signals. By the provision of these at Slyre Head and the Arman Linack, with the improvement of the exciting lights, and possibly with the soloptics of recently suggested methods of position finding by redistributography, the approach could be made absolutely and it all weathers.

3. Shelter.-Galway Boy is protected from the heavy Atlantic swell by the Arran Islanda, but a the control of the co

4. Position of Proposed Peet—Galway City is situated at the western terminus of the main line of the Midhaed Grant Western Hailway, a line to Deblin whith allows of express reaning to any speed desirable, and the graduates of whith are remarkably easy. Connection would be made with Belfast as Mullinear.

Cavan, Clones, and Portadown over a line which admits of high speed. Cork would be reached as Athenry, Limetick, Charleville, and Mallow , and Waterford and Rossiare by Athenry, Limetick, Limetick Junction, and Clonnel.

The distances by rail from the proposed port would be as follows:-Dublin (Channel Ferry) - -140 miles. Larne Harbour

225 da 900 do Rossisre Harbour It will be seen that Galway is nearer to Beliast and Larne than Blacknod Pier. The radway is more subspiced to high speed traffic, and to P2 with exercic to Dublis, with a double line nearly the whole way. It is also more investigate stronger to the property of the property of the best way. Exist also more investigate stought for traffic with the South of Ireland, and with South Wales and the South of England through Romain or the property of t

5. Noted Buse and Generousle Part.—Galway Bay is very favourably estuated as a navel bose, and as a commercial port in time of war. It is situated on the weat coast of Ireland, about undrusy between Longli Swille and Berchayen, and has four eachy defended enforance, with adjocant harbours near the northern entrance at Cashla, Kilbiccan, and Bertragaboy, which would, by proper marking, be available for the obtained to prepare and mining erait employed in its defence. Apart from the new harbser, a float outild shelter in safety from anormand enemy soliton any where middle the Area islands.

Near its head is amusted the City of Galway, which already possesses considerable trade and commerce, and having a harbour supeble of much improvement. From the fact of its being a tidal dock port and having a rock bottom, it is not expanse of being made to accommodate the large vessels now empayed in

Owing to the construction of the Panama Ganal with a depth of 40 feet, and as it is more economical to run a deep draught vessel than a shallow-draught one, all poets which hope to engage in direct overses trade are fixed with the necessity of providing a similar depth of 60 feet. Furthermore, such skips, being of great size, are feeed to accept percel engoes for various ports, in order to fill up thore engo space. For this sizes of trade failway would probably be the first port of call, and it should, therefore, be provided with the maximum depth of berthage.

6. Capacity for Development.-From the above it will be seen that the proposed commercial port must be to descript the theoretical percentage of the property of the available temage. Galway possesses advantages in this respect over all its competitors. On the north shore of the hay the bun fashom line is close in to the coast, and a breakwater having been formed, jetties can be built out from the shore is deep water under shelter and multiplied as required to give additional quayage.

As Galway possesses in the wavershed of the Corrib great water power, hitherto little availed of, power

could be easily and cheaply obtained for working the part electrically, and with the greatest possible The watershed of Loughs Mask, Cura, and Corrib is 780,000 zeros, and the area of the three lakes in 66,000 serses, ensuming ample power all the year round.

There is a full of 29 fore heaveen the mean surface level of Lough Cerrib and low water in Galway

Bay, which gives a full of 14 feet at high water. In addition, there is a full of 36 feet between Lough

Musk and Longh Corrib, by using which elsetric power could be generated at Cong and transmitted to Besides working the harbour, this plant would also supply power to corn mills, earlide factories, and

other industries in the City of Galway. We have little doubt that core this city was provided with a despwater harbour in its neighbourhood, it would become the most important distributing trade centre in the of cold storage, see factories, and curing stations

7. Facilities for Bankering, Communication, and Repairs.-Provision must be made for coal and oil storage. Commissions would present no difficulty in Galway, as the commercial machinery for it is already established in the City of Galway. Bepoining and deciring accommodation should be provided outside of

It is important that graving dock accommodation should be provided at the proposed port of Galway capable of dealing with the largest class of naval and commercial vessels, so as to avoid having to send them to other ports for clossing and survey. Living accommodation would have to be built for the staff and their families engaged in working the service, but, owing to the proximity of the City of Galway, this is a comparatively simple problem. Good markets exist, and there would not be the same difficulty in returning comparatively ringule process. Occor markets carrie, and sales would not be the analysis would load to a great skelled mem. We have fittle doubt that the establishment of this over-sea part would load to a great development of the coesting traffic of Galway, and the ships engaged in that traffic would affect additional

work for a repair yard There is an exceptionally good water supply available, which we believe was at one time proposed to be used for the supply of the City of Galway.

THE SHANNON ESTUARY.

The Ireal Const Pilot save (see pages 329, 334, 339) --"The Shannon River is the largest in Ireland , it affects specious and secure anaborage for shape of the greatest tennage, and is easy of access, its wide entrance, marked by conspicuous objects, in coulty identified.

The Shanner is navigable for all classes of ships for 36 miles above Loop Head, or within 1 mile

of Bearh Castle, and 15 miles of Limerick City. Bepth and deeq.—" The first unaborage in the Shannon, source from all winds, is in Turbert Road, 22 miles above Loop Head, and 29 miles below Limerick, in depths of 10 to 13 fathoms, but the tidal streams are strong. High water, full and change, at Tarbert, is at 4 hrs. 57 mins. Springs rise 14 feer, maps 10 feet.

"Vessels can anchor anywhere between this and Beagh Castle. Fornes Harbour, 8 miles "Venn's can incher anywhere between this and Heagh Clatter, response instruct, 8 miles entward of Energies Rend, affects amphorage in 5 to 10 fathoms, but the tidal streams are very strong in the dispuss part"

"Seattery Rend, early of Seattery Educal, and sistenced by it from the prevailing weaterly wands, affects corellers instruction and good helding-ground of blue mod, with a time severing of

and where wind-bound vessels commonly stop. There is anchorage for large vessels in ? There are simple one-room and depth as far as the juner enterace between Kfirmian Head and Kilorniy Point. A little to the west of this is the Kilotniy Point. A little to the west of this is the Kilotniy Point.

narrower as for as Beal Ber, after which there are good dipth and sea-room as far as Turbert Rood.

By improving the lighting and buoyage, and the prevision of proper fogginaling, the approaches of the Shannon critary could be rendered perfectly well as all weathers for retwarrey of the largest sides as for 3. Facility of Assessed.—"The funnel-shaped extrange of the Shappon, eneming between Kerry

J. Fowling of physicol.—"The insurfeshingal catrinos of the Shannon, opening between Kerry Head on the seath and Loop Head on the north, in surrily 8 males with, with a depth of 12 to 25 fathors; that Kerry Haad shoal, composed of merves, rootly ground, with 11 to 17 fathons over the outer parties, like 5 miles north-west, a contrib from Kerry Head." (See page 330.) The 50-fathors lime her 10 major west of a line drawn from Kerry Head to Loop Head, and the 109inthom line about 67 miles west of the same line.

3. Shelter -- Thure is no shelter ireside the Shannon until Turbert Read is reached.

In the Just Coast Paint Turbert Road is described as follows (see page 339) :-"Turbert Road, south-east of Turbert Island, is one of the best applorance in the Shannon, being well shakered from the prevailing westerly wind, and the halding-ground is good , but the tidal strains

are raped, and it is necessary, in order to avoid their strength, to anchor so close to the edge of the "In the stream abrees the susborage the flood at springs runs at 3 knots, and the alb at 32 knots There is an eddy in the road at half-flood. Off the lighthouse and along the shore to Cook's Point the oblistreum at springer runs with such volocity as to form a violent runs, which extends some distance of

the shore, and northward of the lighthouse. 4. Pasition of Prescoal Park.-From knowledge of the locality, and examination of charts, and swidence

fulfilling the requirements of the present enough. Foynes has been spoken of, but its area is too small, and a rapid tide runs through it. At the some time Poynes has undoubted possibilities of development as a port for trading vessels of moderate dimensions. Relivay communication exists at present as far as Feynea and could be easily extended 12 miles to

Turbers would then be 39 miles from Limsettk, and the distances by rail to various Irish ports would

From Turbert :-Dublin (Channel Ferry) -264 do. Rosslere Harbour 155 do. Turbert is not favourably estuated as regards communication with Sectland and the north of England

on Belfast. In his however, on Limerick, communication with the Shannon navigation, and the Grand and Royal Canals.

 Nosel Base and Commercial Part — As a naval base the Shannon does not appear to passes many advantages, and as a commercial nort it is not so favourably situated as Galleay. Limetric distant about 33 miles, is the nearest commercial centre. 6. Copacity for Development.—Turbest presents several drawbacks as regards developments as a

commercial poet and trade center. To provide ground for the works at Tarbort very extensive reclamation would have to be made between mole from the rated tidal corrents, and considerable maintenance dredging would probably have to be

development which might take place would be at the expense of Limsrick. The water-supply does not appear to be plentiful.

7. Facilities for Bushames, Communication, and Repairs.—Coal and off etorage would have to be provided for commissarist would have to be brought from Limetick, the nearest market, and repairing facilities would remoteness as Blackend and Kallary ; and if a repairing station was e-tablished, most of the remain work at

Taking everything into account, the Shannon estuary does not appear to us to be suitable for the object 1. Tidal currents are strong : 2. It is very remote for traffic with the north of Ireland, Scotland, and the north of England,

BEHEHAVES (BANTRY RAY). Berebaven has often been suggested as a transmissatic station, and with the object in view a line was setually surroyed to it by the Irish Reflway Commonly of 1837. Berebaven is estuate in 9° 44° west

The Iruk Const Pulst cays (see p. 237) :—
"Barehaven, between Bere Island and the maintand, is an excallent harbour, affording abelier for vessels of my rise against all winds. It is epitione and easy of access, with good holding ground, and is an excellent rendezvous for a fact." To it high water, full and change, at Castletown, as 4h. 14m; springs rise 9\frac{3}{2} feet; neaps, 7\frac{1}{2} feet

2. Facility of Agyracol.—The Irak Castl Flick any (see p. 215)—

"Bastery Bay 'kmondicity porthur of Shape Hand, is easy of access, free from danger but such

as common products will serve to avord, and with sorrely any mild steam. If it from 3 to 4 miles in width, and stands shown 15 miles in an easiety direction, with depths gradually decreasing from 3 fathons between Sheep Heid and Eere Island, to 1 is thouse at its ingue end, over a clean between the stands of a standard standards. It is, however, such as good to the defect of westerly varied, its against from the standard of the standard or with address of convenience by the Inguist this?

The extracte is limited by the standard or with address of convenience by the Inguist this?

day castles. There is a good light on the Bull Book, off Dursey Island, with a fog signal. Additional lighting and fog-signalling would have to be provided at the south side of the entrance.

 Skeller.—No shelter from westerly gales is obtainable until under the loc of Bore Island, when resuels would be in outspite shelter.
 Further of Process Perts—Borehaven is signated about 31 miles by road from Hanny; the distance

by risd would be somewhat sharter. A new agrowth line could, however, he constructed along the coast to Kermene, varient could be made so Mallow with Dublin, Belliat, Cork, Waterford, and Boustare, also with Limench and Gallway.

5. Namel Stee and Commercial Fort.—Bershaven is already a naval base, for which purpose it is controlled.

mited; and doubtless, sooner or later, a railway must be constructed to it. As a commercial port it does not possess many advantages, as will be seen in the following paragraphs:—

 Chyanelis for Dissipposest —If other considerations are left out, Birchiven could undenteedly be made available as a mail and passenger port by the construction of a railway to Kenmars, mutable for high appeal tradio to Belian, Dublin, and Rosalars. Should a port of call only be simed at, it has an advantage on its

prolitons, being on the route to English ports.

As, however, the object armed as it to develop a commercial harbour, which can be availed of in time of was fee the leading and safe transit arraws to Registed and Scottand of fooderstift, Soc., is will be found the Bretaven in one in a favourable possible fee under a horbour. Reveloper is remote them Bellists and Dablas, the row cloth or the safe of the society of the safe of the society of the safe of the sa

7. Facilities for Bindering, Goussianistis, and Registre—As present, hiltengia Berndaren in a naval base a ten obtaining foolishis for response, the sector agreeing doubt being at Goussianous, and base a requiring yard and dock even provided at Berdaren vessals would have to proseed to other perts for decking. The Administry schedule possess a dockyred at Goussianous consultation and the continuous consultations of the continuous consultations of the visit de stiffcont to reach stilled laborator and the continuous continuous consultations. The continuous continuo

Received, except as a port of call for mails and passengers, does not, therefore, seem to fulfil the present requirements of a western port.

QUEENSTOWN HARMOUL

Although Quarantown cannot be considered us a western pert, we feel bound to refer to it, as it has belt by persion of a part of call for the American multi for some sovernity years. The entrance to Cork harbour is in S 10° was longitude. The first Cork First says became a feel, and the second of the contraction of the cork of the second of the secon

"Open harborn rise of the "count experience and asserts harborns in the Details blanch, in averaging the third poly large classes from the entirence to Passage, and interest of Ty indice, and it constants space subblind for this largest from to another in nonlease signs for water, one good bothing around, and water to be a substitute of the largest from the another in nonlease signs signs where the property of the property of

1. Depth and Area — "The depth of water in the navigable channel, from Reche Point at the entrance, to Man-of-War Read, 3 miles without, varies from 6 to 16 feathers, from this to Passage, a distance of about 45 miles, there are depth of from 55 to 11 feathers at the water.

consists of most up must, there are deputs or treet up to 11 consists at the "MAC".

"A comparatively small portion of the order argains inside the harborn's available for navigation, the greater part of it being eccupted by shallows, between which the deep water channel trues in a northeast by north direction for about 25 miles to the above of Great Liland, where it bends accupilly to the worstard, usual it most the litter Los a little above Hamiltonian.

The area of water, over 8 inthems in depth, is very limited, and the channel narrow in pieces.

There is a reck income as the Harbour rock in the middle of the entrance, having a depth of from 16 to 20 feet over it at low water. Further saids are the Turket bank with 10 feet, and Dogman hash with 17.

spect one it is now maker over them at low water.

It is high water, full not change, at Queenstown at Sh. In: ; springs rise 11½ feet; none, 9 feet.

It is high water, full not change, at Queenstown at Sh. In: ; springs rise 11½ feet; none, 9 feet.

2. Finally of Agwessia.—No difficulty will be found in approaching the entrance to Queenstown.

Harbour, whole we will defined and marked by Dance Rock lighthain and Rocks Found lighthense, both of which have for gapins. There as the one of getters on Power light dains of the centrone.

But the approach to Operatown stady is through the anchorage ground, and entails risk in navigance in their weather. Deficulty has been found in navigatory the largest mad steamers into this harbour, and the port has practically coused to be used as a port of call for each vessels.

3. Shelter.—There is perfect shelter for vessels when once inside the harbour.

4. France of Proposed Port.—The only suitable sits inside Queenstown Harbour for a transatlancia station comes to be off the town of Quoenstown itself Queenstown is unfavourably situated as regards rail communication with Belfast and Scotland.

The distance by rail to various Hith parts are as follows —
Dablin (Channel Perv), 188 miles.

313 do. Larne Harbour

5. Noted Rose and Connected Part.—Queenstown is already a naval base. As a commercial part the site is on the whole favourable, being in proximity to Cork.

6. Capacity for Development -- Were it possible to establish a large commercial port at Queenstown, there is no doubt that it would be very likely to develop, as there is a rare teentry behind to Cook, moreover, is a large and improving trade contra, and at the present time developments are in progress to revive the shep-building and repairing industry in this town. In 1914 an inquiry was instituted by the Postmanter General in reference to the objections made by the Conserved Company to their large steamers, such as the Lustianus and Mauretanus, using Opcomptown Harbour control company to their suggests that the state of the s

7. Finalty for Bonberns, Commission, and Repairs.—As regards bunkering, commissions, and repairs, ample facilities at present exist at Queenstown.

CONCLUSIONS.

We have endeavoured to give an impartial description of the various effect which have from time to time been proposed for the western port, and have largely drawn from the official Admirally subing directions. We have also considered the relative advantages of these state under take house—(1) depth. convenient we have non-communicative nature anythinger of those often mater has hands—(1) despits and areas (2) faithfur of appreach; (3) theleter; (4) position of the proposed port; (5) invalval and communica-base; (6) capacity for development; (7) facilities for builtering, containing rait, and repairs. It is lose once to the constraints like of affected entitled subdirers previouslaters are constrained, despites for

afters the best sist for the proposed pot.

Absolute the best sist for the proposed pot.

Some statement of Killiam and the sist of the proposed pot.

For extending and costly, that we are of opinions that the ments of Killiam Bay should be very earefully weighed.

wargers.

At Killary Bay no artificial shelter is required, the size of the proposed works being completely landlocked. This would allow the expenditure to be limited to the provision of berthags, poet equipment, the lighting and fogengustling of the sea approaches and channel, together with the railway connection with the Midland Great Western Softwar at Recess. The balancing of the relative advantages of Galway Bay and Killary Boy, from the navigation point of

view and the relative expenditure to be incurred, will require the most careful and unbi used consideration JOHN PURSES GRIFFITH. Much 1918. JOHN W. GRIFFITH.

(b) A WESTERN PORT FOR IRELAND.

In our paper on the Western Harbours of Ireland, entailed, "An Enquiry into the entablity of various Baye and Estuaries on the West Coast of Ireland for the formation of a Commercial Port and Naval Rose. we say (see above) :-

"We have come to the conclusion that, if efficient artificial sheltering breakwaters are constructed, Galway Bay affords the best site for the proposed port."

We now propose to describe the works which we consider necessary, and the position in which we

We now protocol to unserior can work of the operation and expension to personal in which we consider the harbour closel de constituted. The general design of the barbour, and it to position on the mouth store of Galway Eay, are shown on the secondarying plan.* We have carefully examined the coast, and have actified outselves that the position of shoots between Spiridal and Berns is the more matable. All the early rehemes for a Transatlantic mail station at Galway have aimed at forming it as given to Galway Copy as possible, but as the cree of vossib engaged in this trade has ingressed, it has become necessary to move further and further away from Galway. The carboat proposite centred around Muster Island, and the more recurs proposite in the neighbourhood of Barras. Most of these obserces sinced at the construction of a combined brankwater and landing pior. We have conduct all these proposels most carefully, and read of a consumed or a consumer of the consumer of depth of water or room to miscourse.

The way of the present-day Atlantic haree requires that a port for their accommodation should have

ample room for anchorage as well as barthage where vessels drawing from 35 to 40 feet of water can enter or leave at all states of tide.

To sees these requirements we have designed the proposed harbour so as to include a large area of deep water and ample deep-water berthage; and as the same time so as to afferd facilities for future

* Plan 1 of reproduced herein.

arm extending from the shore for a length of 3,000 feet in a southward direction, and then in a southare natural discolor for a further longly of 3,000 feet. The second, an inhall breakware and intended, parallel to the store, leaving a novigable estence 1,000 feet wise between it and the western breakware. To the extreme a wife currance is left between the state which between the state of the store of the state of the largest recode in all weathers. Under the shelter of this harbour it is proposed to form an inner harbour, ultimately intended for an Atlantic flating states, which would affeed accommodation for the largest class of fishing results at all

granted making section, which world about accommosation we are supported to being received and times, and also provide facilities for the equipment necessary for a first-class fishing station, including markets, curing stations, ice feetory, cold storage, utilization of refuse and by-products, together with cooling and repairing facilities

PROPOSED NATIONAL HARBOUR IN GALWAY BAY.

We have selected what we down to be the nearest possible site to the City of Galway for the Harbour. This site is about six makes westward of Galway on the north shore of the bay about two miles west of Barna Only. Since 1851 various after custward of this have from time to time been proposed, and we have examined the plans of those schemes. All of the proposed harbours are deficient in chipth and area, hearing in mind the draught and size of motion vassels. Furthermore, they are all deficient in class water berthage. some of them providing for only one pursueger ality, no provision being mide for general statis. The designs which we have exemined all contemplate a combined breakwater and pler, s.e., the inner face of the breakwater to be used as quay. We consider such a design is centrely unsatinable and isadequate for the

requirements of a terminal port. We attack great importance to this, as it is on this very point that both Guerostown and Fishguard have been condemned as even pure of call by the highest marine authorities

for the large class of steamers at present engaged in the Atlantic teads We have in our previous pamphlet, "An Enquiry into the untability of various Bays and Estuaries on the West Coast of Ireland for the formation of a Commercial Port and Naval Base," considered Galway Bay

(5) Naval Base and Commercial Port. (I) Depth and Area. (3) Facility of Approach.

(6) Capacity for Development.
(7) Facilities for Businering, Commissarist, and Repairs.

(4) Position of Proposed Port

We propose now to investigate in more detail the mitability of Galway Eng, and to describe the works, equipment, etc., which we consider measury for the establishment of a first class terminal port. The site which we propose is, as before stated, situated on the north shore of Galway Boy in Instituda SS 14" N and longitude S 14" W. The design generally consists of a wastern breakwater and bland breakwater. The western breakwater une out from the shore for a total distance of about 6,000 fact in two cants. The first can't runs from the

the shore at a distance from it of about 5,000 feet. This breakwater will be 4,000 feet long, founded in about 60 feet of water, and there will be an entrance 1,000 feet wate between it and the western breakwater. The harbour thus enclosed will be open towards the cost, in sheltered water. Under the shelter of those breakwaters a reclamation will be made, the outer edge of which will run cost and west, at a distance from the shore varying from 600 to 1,000 feet, and roughly extending to the five fathous line. From this reclamation spar jettase or tengues will be run out from north to south for a distance of 1,000 first, with bortlage strugged of from 30 to 50 feet at L.W. The west quay of the westermost jetty will be 1,000

borthage strongers of from 50 to 50 feet at LW. The word quay of the westermost jetry will be 1,200 into from the western bouckwater. We have provided in this design for at such plettes, giving a quarter from the western bouckwater. We have provided in this design for at such plettes, giving a quarter from the counting pin-bands) of about 10000 feet. This describe receiptly this complexed design, but it will be soon later that we propose in the first instance only to protect with a parties of the word, allowing for further extraines to be made at the contract of the proposal feature with complete will be 50° sentime serves, and the word of the distance from the island breakwater to the end of the jettles will be 2,600 feet, allowing ample room for ovinging and berthing of the largest stops in pariest shelter.

Builery Connection.—One great advantage which the proposed scheme possumes over all other suggested consequence of the second seco At passent a branch line into Shoutallow grants quarros haves the Galway and Gibbin Ballway at Navonatic on the west side of the Carrib Brulgs. An extension of this branch of about 54 miles through very easy country is all that is required. The square united of this short line should be one of the first works undertaken, in order that it might be available for use in esemestion with the construction of the

harbour weeks. Stratustes.-The breakwater will be of the rubble mound type, with a concrete superstructure. Attendation—The breakwart will be of the rubble mound type, with a conceil superflucture. The mount will be bought up to the brief of low water, and the representation bounds on it. The mount will be bought up to the brief of the representation bounds of the state of the state

20 feet on the senward ride, and 10 feet on the harbour side. The district rate of the control rate of the national rate. Blackesting Trian crass, raming on top of the finished superstructure, will probably be used both for the construction of the superstructure total and depositing the outside protection blocks. It will be possible to deposit the greater part of three meants from hoppers leaded at a pitry and

rowed out to the sites of the breakwater. 0.178

d made digitised by the University of Southampton Library Digitisation Unit

There is an unlimited quantity of grantic available in the high ground immediately behind the works suitable for the sensituation of the mounds and for the purpose of concrete.

Resiscation.—In order to provide sufficient space for relivary edding accommodation, engine shots, of and coal depots, and vertices terrainal buildings and offices, it will be necessary to reclaim an area of about 100 across on the foreshore. This across is the total area to be relixamed for the finished design; but in the first instance we only propose to reclaim about 82 serie. The finished reclamation will extend from high-water mark to a petched slope or to quay walls bounding the north side of the harhour at the shore ends of the jettles.

It is not proposed to construct these quay walls at the north side of the harbour in the first instance, but to dapast a rubble revenuent about 200 feet shurewards of the line of the future quay wells. Behind this revenues eard will be pumped sabore from a section dradger to a finished level of about 10 fact over high water.

It is not over nigh water.

The sand for this filling can, we believe, be dredged off the entrance to the Corrib River and Galway Docks, and this dredging will prove of undoubted benefit to the inner readstoole and approaches to the existing Galway Docics

Besthage .- The plan which we have adopted for borthage is what is known as the aptir, or tongtosystem. This is the system now almost universally adopted in modern ports, as it is convenient to work, This is an system now across waverency accepted to the extension person, as it is convention or work.

and is the most economical as regards millitation of the available witer-space. The completed design has six tongues, each 1,500 feet in length, and 400 feet in breadth. These project from the above reclamation into the barbour in a direction due south, and a water-space of 6:0 feet in width will be allowed for between them when completed.

The total length of quayage in the completed design will be about 20,000 feet. Skels.-On these jetties double-story sheds will be built for dealing with cargo. Each shed will be about 1,000 feet long by 120 feet wide. The sheds will be placed 60 feet back from the quay face, leaving space for travelling portal cruzes

and railway lines. On one of the jetties a passenger station will be built

Systyment—It is essential that the proposed harkour should be equipped with the most troolers over a handling and labores-inding applicances for the rapid distribute, leading, and bendowing of vessels for addition, graving-date accommodation about the provided explaintly of discloying the largest received. Grain siles muss to built to deal with large eargers of wheat, make, etc.; and if this were done Galway should become an important distributing centre for Ireland and the west coset of Great Britain. Ampèe oil storage must be provisied, not only for the purpose of bunkering the mail hants, which will most probably be oil fired, but also for dealing with the general oil stude of the country. Coal storage

is also allowed for It has been pointed out to us that it would be desirable to include in this achieve for a western but been pounded for an earning action, and a sum of a notice to the contract to the contract to the security of the sequences for an Atlantic finding station. We have, therefore, married a portion of the proposed hardwar as the side for a hashin or mars hardward devoted to this facinisty. Attaple facilities would be previously for the creation of a first markets, curing station, cold society, and to factory, and also the provision of a slip or postoon dock, mitable for the repairs of a fabing fleet

Electric Power.-Galway possesses in its neighbourhood coreiderable sources of water-nower, which should be availed of hoth for the construction of the harbour and for its working when open. At Galway the fall of the River Corrib is already used by various mills, but hitherto in small and inefficient matallations.

and we are informed that 10 feet is the full fall hitherts counted on. and We are macronic man. In come we can use the second have to be purchased if the power available at Galway Several matter-power rights exist which would have to be purchased if the power available at Galway City were utilized, and optivitiest choicie power supplied to the existing mills and industries. For this reason was as in forces, subject to desirable intensigation, or utilizing the full of about 50 feet between

reason we are in mount sumpers to common investigation, or unitating our min or anomic or less between Levigh Mank and Longh Corrib at Cong.

It is probable that the had of the develor canal hatevien Longh Mank and Longh Corrib could be made use of eather for the construction of a water-tight conduit, or for laying a pipe-line therein. Should this the confidence of the confiden Galway Bay as a western terminal port.

Wat r Supply.—A good water supply is available at Longh Inch, situated at a lovel of 183 fact over low water, immediately behind the site of the weeks. The pipeline from this lake would be about 2½ miles in laught. If necessary, the level of Lengh Indo sould be musel, and additional sources provided. JOHN P. GRIPTITH. Awant, 1918. JOHN W. GRIFFYTH.

(c)—A STATEMENT of the quantum of the connection haveour inland Navigation and the Ports of Iraland, by Sir John Navas Gright, M.A.L., M.Inni.C.E., made at the requires of the Sub-commutate on Island Transport in Iraland.

In the course of my examination by the Committee on the 9th of September, 1918, I was saled to "prepare a statement on the question of the connection between inland navigation and the ports." In attempting to do so, I must monestrily be guided by the investigations of, and the information used by, the Royal Commission on Canals and Waterways under the Chairmanship of Lord Shuttlerollected worth. The Commession consisted of nineteen members, and was appointed by Royal Warrant on the 5th of North, 1906, and issued use final Report on the Gunals and Inland Navigations of Ireland on the 5th of Norce, 1910, and house use man stepees on one course and manual Norganization of the complex and difficult problem submitted to us. All the Commissioners lived to see their kibeurs close, and the Irish Begort, which was separate and distinct from that on the English and Scotch Canals and Waterways, was the last work on which the Commission was engaged. It was signed by sighteen out of the numetors Commissioners. The only Commissioner who did not sign the Report was Lord Parer. His

number Commissioner. The only Commissioner who did not sign the Rapart was Lord Parrer. His recount for not signing are given in the own words as follows—then do the integrity, the Secured do the agree with the policy of tecommoding, any further administrative shaper in fraints involving a charge cash as pulley rame, and possibly the Boarde of Management, unless on during a party field cheered susherity has agreed to pay for them. This this river become I can internat at the growth of public carpositions in fastion, which in my spirited will not be obstead unless the popils we begreat the respective of the contractive of the contrac

Under these croumstances I feel justified in saying that the Royal Commission made practically a manimous Report on the Canals and Inland Navigations of Ireland. This Report contains the considered views of men heating divergent political and economic opinions, many of them with wide experience of is anspert problems.

I therefore with confidence recommend the Report to the exceful consideration of the Committee.

Part I. Gives details of the previous custories. Summarises the inquiries of previous Commissions on drainage and pavigation in

Gives the expenditure on Irish waterways.

Part 5. Gives the history and present conditions of Iriah waterways.

Part 6. States the coases which have operated to prevent the entrying out of improvements by private enterprise, and whether such consens are renormable by logislation. Part 7. Discusses whether any, and if so what extensions or unprovenants of Irish waterways

Part 8. Gives the conclusions and recommendations part 9. States the recommendation as to the form of control. The Committee will therefore understand that I one add but little to the information contained in this

Eapers. I can only attempt to point out some matters which bear specially upon the precent inquiry.

A reference to the map of Ireland will show that the connection between inland anyightion and the ports of Ireland to extensive, and it will be seen what an important part inland navigation might play in reland in the transport of now material and morehandise between the ports and minud contras, if fratered by indictions treatment and economic control.

The following Irish Ports are connected by waterways with the interior and the inland towns

The Port of Dahlin is in direct connection with the Grand Canal, which with its main line and leanables has a total length of 909 miles. It connects Dahlin by water with the River Shannon and the River Barrow. The Port of Dublin is also compared with the River Shannon by the Royal Canal. constructed out of spite to the Grand Canal management, and now owned by the Milland Grant Western Enilway, which runs along the ennal benk from Dublin to Mullingar. The Port of Drogheds is in connection with the Boyne mavigacion, which extends from the bown

Drogheda to Navan, a distance of minoteen miles. The Port of Newry is on the Newry assignation, which extends from Warrengoint to Whitnesst Point

The Fort of Newty is on the Newty awaystance, which extends from Warrengone to witnessest Pedia, additione of viewing win miles and them by the Upper Bonn meriphotics to legal Neigh, and through the Development of the Pedia Pedi

The Port of Galway is on the Erver Cornit, and the Lough Cornib navigation extends from the City of Galway to the town of Cong.

The Port of Linuxrick is on the Shannen, and is connected with Longh Deep for newigation purposes by the Linuxrick Canal. From Longh Deep is use water connection with Dublin.

The Port of Yorghal is connected with Gapponin by the Blackwater ravigation.

The Port of Waterford is connected with Carrick and Cleaned by the River Sair navigation, and by the River Barrow it is connected with the Grand Canal system.

The Port of Waxford is on the Sinney, by which there is water connection with Enniscorthy It will thus be som that Ireland possense an extensive system of waterways. They have a total length 57 miles, and a capital sum of £4,875,098 has been spent on their construction. They may be divided of 837 miles, and a region sum of 24,875,038 has been open on their construction. They may be divised into two systems, the Northern and the Southern. The two systems are at present distinct, but could be unted at a nodouste one by the completion of the unfinished Bullynamore and Bullynamic Committee and the systems.

The Royal Commission reported that it was desirable that the canals and waterways should be maintained. but that no very expensive additions were at present necessary. They recommended certain minor works to be certied one, amongst which were the following :--

1. The improvement of certain locks to a maximum spandard 2. Maintenance of waterways, racinding diedging, and the provision of certain necessary accummodation for traders.

3. An improvement of the water supply on certain susule.

4. The substitution of movable for fixed weirs where flooding takes place.

5. Certain outlays in the interest of desinage. The straffic on the Insh canals and waterways consists of porter, mals, flour, breedstaffs, grain, postoses, coper, live stock (chiefly pigs), general merchandise, coal, peas, artificial manure and heavy goods, ands, gravel, timber, and building materials

In making a comparison between English materways and those in Ireland, it is necessary to bear in mind how comparatively usuall the entire traffic, whether by lead or water, is in Ireland as compared with these of English and Wales. The difference of density is the penaltion in the two countries is sufficient. account for this. Agriculture is the principal industry, with the exception of shipheliding and linen in the North, and alcoholic dranks in Dublin. The output of coal and minerals in Ireland is ministedinal when emproy with that of Tagland. Thus are not in Bellot in yailed introductioning or length using discussion, and contradent the transition of the second state of the other seconds. Such grades as the length of the property fragment, as the property of the p

With only of confront and shifted some generate the relatives and waterways of Ireland will. I below, govern meaning by high [1], with the cament in done or externed inset if they are welched methy as competition. We have orientees that the English relatives, in thirt collavour to attle waterway tring, curry an immorate vedume of coll and mountal trinf as in ultrammarative rates I would refer to a page, which I read at the monthing of the British Association hold in Birmangham in September, 1913, which deals, with this analysis, and is multilade:

"Some However why the State should improve the Canals and Waterways of the United Kingdom."

It is an attempt to show that the minoral tentic has been a potent factor in reducing the earnings of some

of our milesys, and that where it is possible to direct a position of the mineral or low-data smills from mile or water, It might present our milesys to be derivated to the actings of letter-spaying tertific, and of a better return being realised on our milesys explosi. My environme is that there is room enough for both milesys, and materiesys in the country, but that he is be second to that he should be used to the but and writtening. The country of the country is the state of the should be used to the but and its limitation. Country of the country of th

ministion of this.

The Birth varietyways have as a rule ample water supply, but problems connected with their efficient working manutenance, and improvement are wrapped up with questions of distinger, milling, and fishing trights. The working difficiency of the sand systems in general as maternally reduced by what can only be transid whimside differences in the pages of the local pages of the local pages.

When considering the question of the form of control for the weaterways of Ireland the Royal Commission was face to fine with the conditing interests of drainage, fishing, and milling right. In paragraph 306 of their Report the Commissioners say :—

"" Wards of the failure that has fall followed the treatment of rivers and waterways in Federal has been

due to the attempt to deat with those problems argamently. We, therefore, believe that the only loop for accorded treatment of the problems connected with drainings and initial manipulation in freshead depends upon their heling under the control of some central authority possessing technical knowledge and having full power to deal with them.

and naving run power to dear want seem.

It was for these reasons the Commission recommended the formation of a "Water Beard" for Iroland
width should be a branch of the Department of Agylculture.

I believe such a "Water Board" would be of great advantage to Iroland by unifying the control and

management of the waterways and the atterial drainage of the country.

34th September, 1918.

Jours P. Grephitz.

APPENDIX NO. II.

Lastrs of Marine Works handed in by Mr. W. L. Miets, Congreted Districts Board, during his Examination on 8th September, 1918

CONOMETED DESTRUCTS BOARD.

SCHENDELE OF PIESS undertaken between the date of the formation of the Board and the 31st March, 1909.

No	Name of Work.			Description of Work.	Total Expendi- ture to 31st March, 1908.	Expendi- ture for 1906-0.	Total Expendi- ture to 31st March, 1909	Observation
	L-MARINE We Denogal				Æ	£	2	
	Machronety			Landing Place	583		501	Completed.
2 3		-	-	Landing Place, Repairs	33.5		315	do.
3	Murkeryzdlon					-	345	do.
- 4	Gertaasate -					13	161	ab
0				Sea Wall, &c			265	de,
6	Loughees -			Blasting of rocks -			160	do
7	Cladramanacach			Piar			1,001	do.
7 8					110	_	150	Contribution *
9	Port Inver -			Boutship and Broak- water (Improvements)		-	413	Completed.
10	Inishess -			Landing Place			32	do
11	Rotkand Island	-	-	Landing Stage	16	_	16	do
19	Togy Island			Landing Place	1,085		1,088	do
	Burton Port			Prop (exclusion)	139	_	130	do do do do
14				" (Improvements) -	48	-	45	do.

* Contribution under the Marine Works Act.

Sommeter or Prins-Continued

No.	Name of Work	Description of Work.	Total Expendi- ture to Sim March, 1908.	Expendi- ture for 1008-9.	Total Expendi- ture to March, 1920.	Observations
	Morare Works-could.					
	DONBGAL-could		8	8	£	
16	Killyhega	Pier 1	3,400	-	3,500	Board of Work and Harboar Com massiontra
	Gela Island	Landing Place	335		395 958	Completed.
16 17	Wron Point	Light	958	=	76	Completed.
18	Dentauaghy Whiteport (Longhaus) - Portaleen Harbour	Channel	556	16	590	Further vote. Completed.
20	Poetaleen Harbour -		512	-		
		Breakwater ,, (Repairs) -	183	14	197	do do
21	Illan Corra	Constructing Sen Wall Execting 2 Lanterns	99	-	10	do.
28	Troin Lights Fallmore		170	-	170	do. do.
24 55	Owey Island	Erecting Landing Place	65		113	do
96	Baltyness	Extension of Pour -	775	- 18	100	de
72	Poolawaddy	Erecting Landing Pisco Extension of Pisco Extension of Pisco Improving Landing	90	18		
99	Falchornh	TIME	80	-	90	do.
35	Loughros Point	Repairs to Shp	873	1	860	do .
31 23	Restor Teelin Harbon	Clearing Berthage - Landing Place -	903	=	503	do do
33	Gleosolumbkille	Landing Place	263 18	II =	14	-
31	Rosbeg Loughros Point	rights		-	145	Contribution.
35 36		1 -	145	_	450	
37	Downings Bay Pies Gortoscate	Es	220	-	300	60 * do.*
29	Pertneo	Plex -	100		200	
40	Portnabla	Pley-Fendering, &c	34 92	114	33 84	Dropped 1 Completed.
		Light	186	- "	196	
41	Poshine (Cashlagh) Vellow Banks (Arthurs)		120	-	190	Contribution.
5044	Carrick Luban Isld. (Castleport) Ballyotherland	Stip	194 200	19	194 229	=
1	Stano. Ballycomeli Works	Clearing away stones - Landing Place	141	-	141 146	Completed do.
2		Improvements and	109	1 =	348	do
3	Multighmore Harbour-		900		900	do
4	Knocklane	880	900	-		
1	Mayo. Poeturiu -	Bontolip, Breakwater and Londing Place	1,176	-	1,176	do.
	Latering	Sea Wall	163	1 -	143	do
2	0 1 1 1	- Removal of Rooks -	71		71	do
- 4	Portuella Pice		. 225	13		Suspended.
3	Dooagh	Landing Place Boatslip, Breakwater	1,179	-	1,179	Completed
	Totomany		- 40		163	do.
7	Inver-	Approach Road - Landing Stage -	123	12	1163	do.
- 6		Landing Stage	800	-	902	do.
10			1,660	130	1.090	do.
13		Boatship and Repairs Landing Place				do
1			1,846	=	- 65	de
- 17		- Repairs to Ship - Landing Place Ap-	2.		25	do
1			-40		40	do.
1	Bunnourry -	total eosi)			1,889	do.
1		- Erecting Fire Erecting Landing Flac	1,880		100	
2	Pinnes -		1,19	+10	1,180	do.
3	Valley Pier			,		

* Contribution under the Marine Works Ast † Credits exceeded expanditure by am ‡ Expanditure on timber to be transferred elsewhere. § Clash Credit.

SCHEDULE OF PERSE-confused,

No	Name of Work		Description of Work.	Total Expendi- ture to star March, 1906,	Expendi- ture for 1906 0.	Total Expendi- ture to 31st March 1909.	Observation
	Marine Works-co	hid.					
	Mayo-contd.			2	8	R	
22	Durby's Point -		Leading Lights			7	
23	Porturin - Cara Hill Pier -		Leading Lights	104		104	Completed.
25			Bepairs Extension	312		4	
26	Aungh (Achill) -		Landing Place (Im-	3 3	=	31 <u>9</u> 5	Completed
1	Galway. Inishboffin			57			
â			Lending Piace Sea Wall	30	25	57 55	do.
3	Inishack	-		342	4	346	Contribution. In progress.
5	Roundillish Aughrussore -			635	- 1		
6			Landing Place Pace Repairs	395	- 1	395	do.
	Clifdea			2923		37 809	do. do.
5	Kilkiteen		Dredging	58 -		92	
10	Decryaca - Traghtagh (8. Aran) Lough Corrib Piess		Pier and Bercons-	296 415		296	do.
	Lough Corrib Piers		Accessions -	258	20	41.5 228	do do.
12	Claggan Pier -			260	500	700	Contribution.*
14	Kilronan Pier		British	1118		112	
15	Cashel		Improvements to exist-	140		240 140	do.* Contribution to
16	Kilmurvey		Repairs to Pier				
17	H -		Leading Place and Ap-	13 845		13 245	Completed.
18			Connecting Pier and	21		21	dn.
19	Kilrouses			99		91	do.
10	Pier			1,000	1		Contribution.
8	y Pier		Harborr Lordt No. 1	1,366	19	1,867	In progress
13	0 0		New Shed	59	= 1	67	Completed, do.
14	H H -		Reports	112	- 1	112	45.
16	Intebmean -		Bootship	705	=	708	Completed and
5	Killiny Cleggen		Harbour Marks Harbour (Improve-	430		430 622	under Co. Cos Comparted, do.
	Degrandonsk			96			
0	Derryasclough - Boundstone Pier -		Erecting Landing Place Esmoval of Rocks	19	-	96	do.
2	Maco -			350		250	Contribution.*
	Doonlooghan -		Erecting Pair and Ap	2,216		2,216	Completed.
	Kigganl		Londing Place and Approach Boad	370	4	.824	do
	Feenish Inkani -		Approach Boad Improving Londing Place	38	-	26	dq.
B I			Pier	105	- 1	105 131	do.
9 1	Deer Island			146	- 1	105	do.
8 1	South Arap-	-1.	Clearing Strand, &c	416	- 1	416	do.
1	Jeggau Pier Killomy Harborn Wor			98		367 56	do.
	Killonny Harbotn Wor Jamaron – –	ka :	Mooring Rings, &c	3	74		Surpended. Completed.
3	Pollaszauck		Shp -	_7	158	135	_
Л.	Karay,					100	_
	Moerogalana -	- -	Landing Place and Breakwater	L,359	- 1	1,850	Completed.
8		- -	Sepairs to Londing	10	- 1	10	do.
1 8	Socom	- !		1,173		1,178	do.
	2000		Mooring Buoy	93			do
1 8	Srandon Creek -	- 1	Approach Boad	983	200	931	do do,
	* * * * *	- 3	Approach Road Protection Wall lemoval of Books -	144			
	11 11		Protection Wall	389 97	- 1		do
		- 17	ler John	194	=	97 124	do do.
10	Pier -	-13	Jight	-65	-	48	tio.
				95		95	do.

SCHEDULE OF PURS-Continued

No.	Name of Work.	Description of Work	Total Expendi- ture to 31st Murch, 1908.	Expendi- ture for 1908-0.	Total Expandi- ture to S111 March, 1900.	Observations.
Ī	Marine Works-confil.					
	KERRY-contd.		£	£	3.	
18	Blacket Island	Pitr and Breakwater -	384 389	-	384 489	Completed.
16	Glasha and Tultin - Enkogom	Small Quaya	467	19	693	do
16	Coonskills	Londing Place and Road	87	-	87	do.
7	Lehnd Harbour	_	100		100	Contribution.
8	Derecoverschan	Breakwater Pife and Slip	3,679	=	3,679	Completed.
	Conarn Pir		886	2 7	588	
12	Contains Par -	Lights		90	90	Completod.
13	Travaginasan	Breakwater and Ship - Repairs -	1,902	- 9	1,309	da. da.
14	Glen Boat Cove	Quey, Stip and Ap-	1,535	-	1,535	de.
16	Decrypane	Quey, SEp and Ap- proach Landing-place and Bridge	242	-	943	do.
97		Beacons and Leading Marks	220		330	do.
98	West Cove		750	-	710	da
29 20		Repairs to do Additional Benevas -	53	=	56 42	do.
11	Scraggans Conocrown Harbour	Pier and Boatshp -	1,400	=	1,640 34	do do.
33	Tabilla	Quay	900	-	900	Contribution to County
34	Killorghn Ripeen and Laher Land- ing Places	Bost Slip Removing Books -	308 15	=	302 15	Completed.
36	Conshenkermy		970 563	-	930	do do
37 18	Coouslanghay	Landing Place	70		70	
29 40	Allahaemere (Foil on-	Plaz Londing Place	10 250	+3	10 ±87	Contribution. In progress
61		Boat Stip Extension of Stip	909	-	90E 1,015	Completed.
42 43	Roads			190		
64	Dingle Horbour - Ballingung		590	-	500 40	Contribution do.
93			175	7	175	do.
67 68	Benard Point - Coosstorinth -	Steps	91	250	21	Completed.
1	Mosora	Londing Phote and	389	-	359	do.
2	Castle Island -	- Quay	150	19	168	Contribution b
3	Traclocak	Slip	339 434	190	134	Completed Work suspender
6	Loughang	- Landing Place	113	3	125	
0	Cahurloum		706	194	706	Completed. In progress
8	Gortdore		933		233	Completed.
10	Glanroon	william as were to	268 146	6	274	
11				-	1,123	do.
12	Bere Island		1,123	-	813	do.
13	Gannish	Boatslip and Retain- ing Wall	B13	_	228	do
14	Trafrask	Boatshp	45	-	45	do
16			196	-	196	do.
17		Bostship Landing Place	97	-	27	Contribution do.
15	Adripole Pier -	Extension	1.354	130	1.234	Completed.
20,23	Courtmanherry -	1 Picr	. 690 88	=	590 88	Contribution. Completed.

* Contribution under the Marine Weeks Act. $\qquad \uparrow$ Credits exceeded Expenditure by amount specified.

Schmoln of Press-Continued.

No.	Name of W	ork	Descripti	on of Work	Total Expendi- ture to 38st March, 1908.		Total Expendi- ture to Stat March, 1996.	Observations.
	Marine Works	-contal.						
	Conx- could				1			
22	Dharrage -				2	8	1	
3	Inighturnard		- Slip - Lauding Pi				29	Completed.
	Cane Clear -						50	do
8	Gortavallin		- Constructio				536	Contribution.*
00			- Introverse	nts to Pier -	192 155	= 1	180	Completed
	Canalongh -		- Landing Pl	are	100		165	40.
					43	- 4	- 67	Contribution to County,
	Schull -		 Extension c 	d Puec -			933	do
9	Glazgariff Sand (Rebuilding 	Quay:	145	-	145	Completed
٩١	Ourtakeg -		- Construction	n of Pon -	100		100	Contribution to
9	Too		- Slip -		194	4.1	166	County, Completed, Fort
	Toor							
			 Approach I 	load to Slip	60		60	Completed
1	Aregroom Harbo		- Siip and Ap	georeti -	560	-	195	do
31			- Reaction of See Wali	Beacous -			156	do.
			- See Wall		10	-	90	Contribution to
3	Castletown Bere		- Extension o	d Port -	094		694	County.
7	Doonten -		- Paur -		1.118		1.118	Completed.
	Golgen -		- Quay (Piet	and Road) -	9	345	354	Compressor
ш			Boat Sizp		125		125	Contribution to
	Whitelessee -			on	130		144	County Completed.
	Daysty Island		- Slip -		33.1	2.4	333	do.
3	Toebood -				416	156	390	In progress.
	Glongwriff				1,116	21.8	1,339	Commissed.
	Ardgreen River		- Rock -		4		4	do
	Fracality - Hare Island		- 8hp -		- 69	107	153	In promess
	Ballinskilla –		Carsseway		3	329		do
					4	-	4	do
	Gleanaff Per				-	85	85	do
						328	128	=
	Total spent on	Morin	e Works		75,877	2,790	78,778	

^{*} Contribution under the Marine Works Act. + Credits exceeded Expenditure by amount specified.

CONGUSTED DESTRICTS BOARD FOR IRELAND.

STATEMENT showing Expenditure on Marine Works for the period from 1st April, 1960, to 31st Augest, 1918.

Comty	Name of Work	Partie	Particulas,				Amorant					
Deorgal	Poet Vaugh Luiskerre - Mullaghdong Geson Sound - Jushbodin - Leshgurow - Burnemas - Gortmeste - Magherouty - Moiroy - Bullysupput - Luishberagh tidre - Luishberagh tidre		Slip Bencous - Slip Light - Light - Pitr - Pitr - Water Supply Pea - Light - Slip Right - Slip Right - Slip Protection Wall				108 411 117 438 435 728 589 225 692 1,124 602 113	19 19 0 14 8 10 6 16 0 18 16 16 16 16 16 16 16 16 16 16 16 16 16	20 4 3 1 0 8 0 5 1 1 6	£	5	4
			Pro Extension				796	15	8			

CONCESSED DISTRICTS-Continued

County.			Name of Wor	k		Particulam.	Amount			
Mayo -	20		Decemb Blind Harbour - Currowanee - Keel (Achill) - Graughill Buolough			Landrag Phoe Harbour Works Harbour Works Harbour Works Phr Landrag Phoe	22 7 4 438 2 7 170 0 0 834 4 11			
Cinhway			Hyrok Ciogsa Do Inishne Do Inishne Kibaurey Deer Idand Caraba Dombughan Gsegan Inobose Inishnasa Cashis Derryrush			Fice and Road Pice Cliff Wall Light - Light - Pice - Light ned Road Pice and Road Waterworks Pice - Sip - Light - Ligh	119 14 0 122 18 7 68 9 3 512 1 9 504 3 9 504 3 9 505 17 1 125 11 11 176 0 8 667 9 7 10 667 17 10 1,368 1 8 67 13 3 668 17 10 1,368 1 8 668 17 10 1,368 1 8 668 1 8 66			
Nace -	-		Poulgorm Derson Kilkre		111	Plot	331 4 8			
Orck -			Baltimore			Pier	1,024 6 1 895 8 6 995 19 11 1,106 13 11 211 11 9 192 16 9			
Cerry ~			Dunquis			Wieck Removal	75 0 0 0 034 13 5 U,894 1 7 420 13 9 351 12 11 100 0 0 0 961 17 2 647 1 8			

APPENDIX No. 3.

MINIOUANDESS transmitted by the Dublin Industrial Development Association supplementary to the eridence given on its helpli by Mr. H. M. Decirell, Past President of the Association, on 10th Scotember, 1918.

The Dublin Industrial Development Association is a voluntary body which has been in existence since 1996 and has for its object the encountermant of Irish industries. It consists of about 450 members who are objectly measuratures, with a considerable preportion of commercial and preferenceal man, and who are cliently measure-streets, with a considerable propertion of commercial and preliminosis alone, and many public spiceled cidients, man and worses. By its convention, fail the governing locky, known, as the Control, must be manufactures. The Consult most weekend, with particular references to Deblin City and Consty. The Association is apported by manufactures in all parts of Irished from Proceedings of Workford, and enjoys in an inercosing measure their confidence and innoistay suspect. It publishes not annual Boyert, a Directory of Irishe Manufactures, and written of Reports on important annual Boyert, a Directory of Irishe Manufactures, and written of Special September 1996. mosters from time to time, as well as propagandist literature. The Association is morphised, and persons of all shades of thought more at its weekly Council meetings and at its General Meetings in complete harmony and co-operation.

0.178

The Accordant would represent that the quantum of the under sed bedown is in find only responsibly will accordant of the sent in Section of the sent interpretation of the sent interpr

district, has drawn roughned that the improvement of its treasit facilities is interdependent with that of the row of the country, and from this sandpoint holds that it is essential to the substrain reprotection of the country that all the masso of taxatis should be made unable outer, whether this takes the forms of ecoupter Sans and Mattanilastion as on the Geniment, or of a Boast or Commission working under Sate Control as recently subministrial by Sir Rockett Design for the Controlla Sallways.

form of compète State Nationalisation as on the Continent, or of a Bourd or Commission weeking under State Control as recently administrated by Str. Roberts Declaries for the Ganchies Reliverys.

It is columitated, therefore, that the transit question of Intibard one only be death with on the principle of complete anticological and all the sense of communistrates, Reliverys, Roberts, Carba and Waitzways, the superference of the Control o

aloas and transit forithtes is a give requisite of every plane of national development, and Techand will, grove accounts in the time. That is vity we advocate the taking of its long ware at the present junters if the Government cereanity catestain intentions of reasoning prosperity and the full maximal population to this committy. Any amountable measures of revision or in-presentance of tentils entirely mental to manifest mental seed, not only for the present reality shazersal confidence, but, following the seample of all modern commercial communitation, also for those which are bubbly to easi they were see mental shear.

the present randy distourant conditions, but increasing the enemyles of an occurr construction accordance in England α , and α is a finite part of the present part of the par

In the avenal of the mail-ordination of the little small as not restorway the Amonastica bolds the view which the manapoly whould not be not account one as as the cose of the entropy of mills by the Post Office, he than they should be open, with whetever limitations mught be found to be desirable, to the use of the purple than they should be open, with whetever limitations mught be found to be desirable, to the use of the publish management of the traffic and has a funded by the controller these facilities to on much from the Revenue point of view and too little from that of cosmoids development.

of these and too like has the of measures development.

The opposition of the contract of the

interesticate or cross canasac routes.

The fact recently cated by an expert in a magnatice article, that in England a rullway waggen is doing effective work in the carriage of special for only about a quarter-of-an-how during each twenty-four hours of its caustance, is an infinishmon of the very considerable economies which a proper no of statistice major routed possible. Such seconomies would, no doubt, he relatively greater in Ireland than in England, and would also be specially in the case of canal boost, motion feeder exercise.

Other controlled profitation is not printered in presentation in an interface party space from the controlled and controled and controlled and controlled and controlled and controlled an

by Menne, Alashary va Erinderry, King Conney,
It would be loding to for absolve vie for, in the case of Irokod, to runguest discussion on the scale
laid down, for instance, in the law passed by the Fetols Government in 1875, by which all canals, whether
owned presently or by the State mean there a minimum degle of \$\frac{1}{2}\$ each of \$\frac{1}{2}\$ each of \$\frac{1}{2}\$ for the State of the Alas and intrinsimon decreases made t-leighes of 12 face, thus canaling loss of 300 tens burden to use all the mean
arrange, but it would not be more than reasonable to authorize and provide in Triestad of the losts of

The following are the maximum sizes of bests that can use the various canal systems in Ireland as estimated by the Beard of Works in 1899 (ed 19-1899) :--

MAXI	MITTER	DIMENSIONS	OF	ROATS.

							Length.		Brendth.		Dranghi.		Hendway under Bridges	
					Ft.	ins.	Fs.	The.	Pt.	in	Fi	ios.		
Newry Navigation	-						15	1	- 5	4	9	3		
					62	ė.				6				
Longh Nough, Upper a					110	ō	14 18	6		ė.				
Typone Navagation					62	ė.	14	6	8 5	0	1 6	0		
Ulater Capal -					63	0	11							
											6			
Longh Erns Navigation Ballicamore and Ballye Shangon Navigation	omell	Cazasi			45	0	Minis dep 13	th.		6	Not ac	ow used		
							No I							
Boyal Canal -					70	0	13	1		6	10	0		
Grand Canal -		-		- 1	61	ō.		6	4	6	9 19	0		
Barrow Navigation			-		68	0	13	4	- 4	0	1 19	0		
Kiver Suir Navigation						5.000	No L	ocks.						
Borne Navigation	-		-	- 1	70	0	14	3	- 4	6 0	1 7	0		
Foyle p					70	ō	16	0	5	0	1 12	ō.		
Lough Corrib -	-			- '	130	0	90	0		0	1 6	6		

Boats might for the more economical handling of traffic be standardised in three or more sizes and constructed obsopily ether of stock, iron, or ferre-occurete, so so to carry say, one class up to 13 or 20 cms, another up to 60 cons and a third, up to 60 cons.

com, another up to 60 (costs and a terred up to 60 them. The design of the bottom, to the bottom, to might well in the same connection be a matter for exerting consideration of the boards of experts in the sight, becaused on the boards of experts in the sight, becaused on the boards of experts in the sight, becaused of the sight of the sight

of the canal banks add ones occurrily to the cast of uplease.

If the communications of the country were all intionalised it would, of course, be necessary and quite possible with the assistance of experts, to donely the terific systematically as a whole and deal with it as is

segment in this issumments for reported with the transmission that the Communitor. Let us distribute of the contribute of the contribute

Pos

The only per is wind the Dukin Indianed Development Amended to directly inverted is Dukin Manusha Dukin Development and the Part is very at wind the price to effect the contraction the Part is very at which the price to effect the contraction of the Part is required to expect the price of the Part is required to expect the contraction of the Part is required to the Contraction of the Part is required to the Contraction of the Part is very desired to the Contraction of the Part is very desired to the Contraction of the Part is very desired to the price of the Part is very desired by the Contraction of the Contraction of the Part is very desired by the Contraction of the

The geographical situation of Debies to less the control of the properties of the control of the

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The provision of increased and modern facilities for the handling of traffic is an outstanding necessit of the port. Much might be done it is thought by revisions of the berthage, without much disturbance of the eros-channel steamers' borthage, to concentrate the overseas traffic in the neighbourhood of the Alcoundry Basin and the Eastern or outward and of the North Wall, or possibly to concentrate the different main kinds of traffic such as say, timber, cool and grain in particular sections of the port where the mossessy influint would be provided. Enlargy less should be rea along all the query on the North and Sould, with commentions to the rank lines of Realitys, and a sufferency of electron cream singulation beat sakes of the triver. The question of an extension of the Dablin Trammys System along the Quays and its utilisation for the delivery of invaring quots to the Olya and Substants should be comistered. In the matter of loading and unloading eargo vessels economy of time, it need searcely be pointed out.

was, owing to unnecessary delay in leading and unleading, spent in port,

Discussing this address, Mr. Perry S. Donald, Managing Director of Robanson, Drew and Clydrodals, Ltd., and with reference to the importance of efficiency in carge handling that he believed more than half the time of chips was spent in part, and calculated that an acceleration of only 12) per cent would be equivalent to a gain to the existing mercantile flact equal to the annual less by submarine. He was prepared to demonstrate that acceleration from 10 per cent. to 25 per cent was possible at most ports. A competition in eargo handling would give most startling figures if based on the following fundamentals:

(1.) Tons unloaded per hour per man employed. (2.) Inclusive cost per ton for (a) leading and (b) reducing

(2,) Inclusive out per ten for (a) Jerding and (b) inducting.

The Acceptation when a supera, if it is no mostly of the Bourn of the Commission sonor provided to the Commission sonor control to the Commission showege forming in Dublin, the Dublin Compension, sonor of the Pert, the Commission shows the Commission should be both with X was to the Commission should be also should be a commission should be also should be a commission of the Commission should be also should be a commission should be also should b drawing up of an omnibus scheme dealing as a whole with the steps necessary to rectgarine the transport services of the country radiating from the Port of Dublin.

If the Foct of Dablin were to be dealt with as comparatively small entrepots on the Continent have been, it would be desirable to examine the possibilities of extending the North Wall seaward for a considerable distance, even to the present entrance to the river at the end of the North Wall for which plans are understood to be in existence, and utilizing the space thus enclosed for large and drep dock and graving docks, foundries, engineering works, and other such natural adjuncts to the business of a large part graving doubt, founding, engineering voters, must occur sent materia, suppose to be recussor on a mapp part, also estate shapping vasie and quays, arrangements being mode for the temperary of estific from the Corporation Codels Market or from the interior postulars of tribude to these yards by mil all the way. In this consultation the possibility of providing an absolute and some for the projected dark must trade in the same nighbourhood would be opended.

The example of the fereight and enterprise of a number of compensatively small German consumnities

in directions such as those above mentioned may be cited. We have Bremen planning not only new harbours but a new town; Mannhelm buying bundreds of acros of marshy kend near the river and laying it out as an industrial area supplied with clocks, quays, and milesy communications, and equipped with the most modern appliances for loading and unloading vessels and embling factories and warehouses to be exceed to

receive new materials for industries by water The population of Minabelia was only 105,000 when this enterprise, involving an entlay of £3 10s. The population of Minabelia was only 105,000 when this enterprise, involving an entlay of £3 10s. per head of its population, was undertaken. The enterprise was clearly understood on all sides to be a measure of common development, financial conditionation sheir quite subsidiary. Finaltherica-the-Minabelia of the common development, financial conditionation sheir quite subsidiary. Finaltherica-the-Minabelia of the common development has been similarly progressive, and has found it necessary to extend its existing dook accommodation considerably. All the available space within the town boundary having already been allocated, and the existing docks abutuing on populous districts where extension was improvincible, a site was acquired outside the town of over TOO arms, with a river froze of 2 miles and a depth of from 1,900 to 2,600 yards; railway compositions will join on to the trunk lines, an extensive hinterland being received for factories in the hore that with a provision of facilities a thriving industrial centre will spring up,

Described has adopted similar measures. The instances mentioned are quoted here as showing the far-eighted views taken by the Municipal and State authoration in Germany in regard to the development of feedbase for water transit, which they properly regard as the necessary preliminary to, not the consequence of, secondari development of trade and

R. N. Schere, Secretary.

SPECIFIC RECOMMENDATIONS OF DUBLIN INDUSTRIAL DEVELOPMENT ASSOCIATION. 1. Unified Control of Canals and other means of Transport under a Public Authority.

2. Standardisation of boats and regulation of depths of Canals, so that boats from any brish Canal on travel on any other, and such other inconsary alterations as weald enable this to be done.

3. A short Coast Consecting the Boyri and Grand Caralle Sorter on Kingopan and Mullinger, wa
Longin Bonel and Lary's Coast.—No contention now exists except as Dublin;

4. Expert unvestigation of humbage systems, travelley, earlier, notor, etc., with a view to adopting most anitable for Irish Consis.

PORT OF DURING 1. The South Guars to be composted with the Dublin and South Eastern Railway fine

2. The Tramways to be utilised for the distribution of goods from the Quays to the City and Suberba 3. Cranes to be provided where they do not already exist for unleading heavy goods. 4. A grain elevator to be provided to unload direct from the ship,

APPENDIX No. 4.

Cory of Correspondence with the Admiralty and Statements transmitted by she Dublin Port and Docks as supplements to the evidence given by the Board's Chairman (Alderman James Moran) on 10th September, 1918. (a)—NEGOTIATIONS WITH ADMIRALTY RESPECTING IMPROVED GRAVING DOCK AND "FITTING OUT WHARF" ACCOMMODATION AT THE PORT OF DUBLIX

On the 5th of July, 1917, the Post and Docks Beard considered a report from the Harbour Master wand to newydiar additional Dock and Stap accommodation. The report was referred to a Subin regard to providing additional Dock and Step accommodation. Commistee for compleration and report.

On the 37th of December, 1917, the Admiralty wrote coquiring when it was proposed to start the construction of a Friting-on July close to the Graving Dock, which had been the subject of an On the Slat of January, 1918, the Chairman presented the report of the Sub-Committee to a

Committee of the whole Board, and it was approved. The Board then authorized the Chairman and You Chairman to act in the matter, and,

On the 5th of February, 1918, he Scoretary communicated to the Admiralty the East-I views (copy of letter submitted in ordains by the Chairman of the Board on 1908 September, 1918). On the 8th of Eshimany, 1918, an abnowledgment of this letter was nestived.

on the det April 1916, in heater special expression to configuration of the first in the det April 1916, the Board words expressing, the best received by then, and pointing out that the Board were being urged to faulthiate altiphoiding at Doldin, sad they could most effectively on by beginning the conservation of the Spar Whater relatives to a their local of the Shi of Pedranty. On the 15th of April, 1918, intimation was presived from the Admiralty that the Bourd's letters of the fish of February and the 6th of April had been referred to the Director of Ship Repairs, Administry,

On the 17th of May, 1918, the Admiralty wrote that the proposed extension of the Dry Dock and the hullding of the Spur Jesty had been carefully considered and discussed with the Director of Ship Experiment that a Racidient Engineer was being size to Dublin to visit the site and forward a report. On the 50th and 50th of May, 1918, 5fr. Consisten Claust, Racidient Registers, representing the Admirability, had an interview with Admirability, bad an interview with Admirability, bad an interview with Admirability and the Feet and Decke Basirily, Mr. Walter Coast (Deferies Superintendent of Ship Reports, Dublin Away, and Mr. Mullish (the Basirily Engineer), with reference to the extension of the Graving Deels, the building of a Spur Jetty and the province of a New

Craving Deck. Estimates for the different weeks were given to Mr. Ormston Chant.

During the month of June, 1918, there was considerable correspondence between Mr. Ormston Chant. and the Board's Engineer with regard to details of estimates and designs connected with the proposed

On the 9th and 10th of July, 1918, Mr. Walter Scott, together with the Board's Engineer and Law Agent, saw Major Brims, Director of Extensions, Admiralty, in London, and discussed with him details Agent, new suppr nears, Director of Expensions, Administry, in Econom, and discussion with him debuts of the proposed works, and also explained to burn the imitations the Board were under write regard to imaging the scheme; and refreshed the deere of the Board to facilitate in every way the immediate maning use seasure, and Telestock to occur on the novem to minimum in every why the limitedities of these works, subject to the rectification placed on them by their Acts of Pradament. Interviews also took pines with respectable officials of the Beard of Treds and the Treasury as to the proposality of exempt govern of allhogs protein of the Beard of Treds and the Treasury as to the consulting of exempt govern of allhogs protein of the Beard of Treds and the Treasury as to the consulting of exempt govern for Allhogs protein of the Beard of Treds and the Treasury as to the consulting surface of the Beard of Treds and the Treasury as to the Parameter also the Section of Treds and the Treasury as to the Parameter also the Section of Treasury and the Treasury as to the Parameter also the Section of Treasury as to the Parameter also the Section of Treasury as the Treasury as the Parameter also the Section of Treasury as the Parameter also the Section of Treasury as the Parameter also the Parameter also the Section of Treasury as the Parameter also the Parameter also

the point was sottled whether the Dublin Port and Docks Board had received permission to carry out the proposed works out of capital.

the proposed works not of original. In regly therens, this Board wrate that they were without the view of the Administry, as has deep that Perpet of the Engines, we had already viewed Dabley than the Penel's were disting to abide by their office of that the C. Potercey, 1918, and that they had been advised than they laid not power to express and practices of the ESOMOON, which the Board bad power to even to make on any other than to prove to express and practices of the ESOMOON, which the Board bad power to even on any other data. The express the express that the express the express the express that the express the express that the express that the express t COPY. Urgent--461.

Port and Dooks Office. Dublin, 6th April, 1918,

Beforence D.C.A.S./34x/x2/42962. Sir,-The Dublin Port and Docks Board have instructed me to communicate to you their disappointment Sig.—The Dublin Peet and Decke Board have indirected us to communitate to you their deapprintens of the Figure 1 and 1 a The Board, therefore, trust that you will be so good as to give these matters as set out in my letter your carliest attention.

I am, Sir, Your obedient Servant, (Signed) N. PEOUD, Serviny.

Major C. W. Brims, Deputy Director of Engineering Works, Admiralty Control. Great George's Street, London, S.W., I.

P.S .- Copy of my letter about referred to attacked.

COPY

Poet and Docks Office,

Sir.—Beferring to your letter of the 17th May less, C.G.M.S., 1558/87, and to turne of 5th February and 6th Agril last, on the construction of a Spur Wharf or Jetty, and so actending Dry Dock assoumedation at the 15th february Dock Bond event of the 4th Section 15th Section 15t

the visit of your Emission Engineer to the risk to which give risk.

I am to make that with the good to additional Covering prior recommendation the Board wave advised that the seam named under their Port Act, vis., 4200,000 ently only be appropriated to the building of a Nor Book, and not to the absention of a notating one.

Under the decumentance it would be of great advantage to Shipping; if the Administration when the advantage that the act and the advantage of the administration of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Administration when the state of the Shipping of the Shipping of the Administration when the state of the Shipping of the Ship

or a structure of the second services of the feether and the second services of the second services of the feether of the feet

T am, Sit,
Your obodient Servant,
(Signed) N. PROUD.

Director of Extension, Admiralty, Great George Street, London, S.W., L.

(R)-DUBLIN PORT AND DOCKS BOARD.

ACCOUNTANT. Systember, 1918.

(C.)—DUBLIN PORT AND DOCKS BOARD. CAPITAL EXPENDITURE AUTHORISED UNDER ACT OF $100\,\mathrm{R}$

Works.	Amount Authorised.	Expended to Sist Dec., 1917.	Balance unex- pended at Sist Dec., 1917.		
Dredging River Channel and Burand Reclama-	E = 4.	£ s. d.	E a.d.		
tion of land north of Alexandra Basin . Beconstruction of Old Quay Walls at Glasgow.	110,000 0 0	110,000 0 0	-		
Belfast and London Berths	60,000 0 0	57.999 4 1	2,707 15 11		
Shads at Glasgow, Belfast and London Bertlis -	18,000 0 0	9,364 17 8	8,475 2 B		
Reconstruction of Old Duck Bridge	12,000 0 0	9,324 17 3	18,000 0 0		
Eastern Beeakwater and Loghthouse	30,000 0 0	85,063 10 5	4,976 9 7		
Deepwater Jekty near Gondings Works	6,000 0 0	5,961 9 4	8 10 8		
	230,000 0 0	207,632 1 1	28,347 18 11		
Widening of North Walt Quay	19,000 0 0	11,368 10 9	7,631 9 3		
Alexandra Basin	900,000 0 0	183,635 8 9	16,364 11 3		
New Graytag Dock	200,000 0 0	183.630 8 9	203,000 0 0		
Sraving Slip Alterations and Crane	18,000 0 0	17,990 2 11	9 17 1		
Crarroway Renewals	10,000 0 0	6,998 B 4	3,177 16 6		
Lights, Buoya and Beacons	8,000 0 0	8,310 13 0	629 7 0		
-	891.000 0 0	480,618 19 19	232.181 0 9		
Unscheduled Works	69,019 15 7	60,510 10 7			
	755,510 15 7	466,229 15 5	259,181 0 2		

ACCOUNTANT. September, 1925. (6) CONSTITUTION OF PORT AND DOCKS BOARD, DUBLIN, UNDER "DUBLIN PORT AND DOCKS ACT, 1888,"

The Lord Mayor for the City for the time bung. Six members of the Corporation to be appointed by the Corporation, who shall held office for three years, if they remain members of the Corporation, Twenty-one observes members, twelve Tradical members, and nine Shipping nembers, who shall hold

Election held annually on second Totalay in January. Elected Members take office on second Thursday in January.

ediec for three years.

Qualification of Trades? Members -- Male persons of full age being resident within 15 miles of City undary and possessing one or more of following qualifications: Openper of lands or buildings situated within 15 miles of City boundary rated at \$60 or upwards

Being in possession or in receipt of the rents and profits of land which are held by or in trest for him for some estate of freshold of rateable value of £150. Provided where two or more persons are

jointly rated in respect of any property cook of such persons shall be qualified to be closed if the valuation of the property when divided by the number of persons so rated shall be value of at least £60. Qualification of Shipping Members.-Male persons of full age being resident within 13 miles of Only

boundary and possessing one or more of the following qualification:

Being registered owner of allejoing registered at Post of Dallin of 500 tons or upwards and having pard £500 or upwards in the twelve means ending 31st August preceding day of Election.

Having paid Tannaya Esten at Port of Dublin to amount of £500 or upwards in the 12 months ending

Mist Angust perceding Election. Being a director or authorized manager of any Shipping Co., which company possessor either of the shows amplifications.

Being the manager or agent duly authorized in writing under hand or in ease of a company under seal of any person or company being owner of shipping not regulated at Pert of Dublin, but which person or company has during twelve mentas above mentaced paid Tomage Ruse as Pert of Dublin amounting to £500 or upwards. Where shipping is registered jointly the amount shall be the result of a division of the total amount of

such tennage or rates by the number of persons so owing or paying the same.

Elections have been postponed by the Board of Trade from year to year once January, 1916.

APPENDIX NO. 5.

Errourr dated 17th September, 1894, of Major-General C. S. Hestelmens, R. E.; Bepart dated 18th Aggust, 1895, of Major E. A. Marriain, R. E.; and Bryont dated 16th September, 1995, of Mr. Didde Finisher, relative to the Boyal Casal, handed in by Mr. Thos. F. Noosy, a member of the Beard of Centrel of the Canal during his examination on 10th September, 1995.

(a)-MIDLAND GREAT WESTERN BAILWAY OF TRELAND (ROYAL CANAL).

Board of Trade (Reilway Department),

8. Richmond Terrace, Whitehall, London, S.W., 17th September, 1894.

I mave the honour to report, for the information of the Board of Trade, that in compliance with the instructions consisted in the Order of the 5th June, 1884, I have improced the Boyal Canal belonging to the Midhad Great Wastern Kulleny Company of Irrhad, with reference to the complaint as to its condition contained in a memorial signed by 55 truders and boat owners on the canal and forwarded to the Board of Trade on May 12, 1894, by five Irish members of Parliament.

The impetion of the can-i was preceded and followed by an enquiry at the Canal Officer at the

Spencer Dock, Dublin, attended by representatives of the traders and best owners, and of the Railway Company. The inspection, which was made in a fly boat (kindly placed at my disposal by the Raslway Company)

drawn by horses, scorpied six days.

The Royal Copal, which was constructed under the powers of an old Act of Parliamont, originally oxtended from the Broudstone, Dublin, to Richmond Harbour, County Leitzin, with branch to Longfield and a harbour at Mullinger. It was afterwards extended to the Spencer Deck on the banks of the Liffey, and was in the year-1846 acquired by the Midland Great Western Railway Company, under the powers of an Acc of Victoria 8 & 9 cap. 119.

a Act of Victoria 8 & 9 cap. 112.

The total length of the canal from the Spencer Deck to Redroced Harbour is about 90 miles, the beaned to the Broadstone is about bell a safe long, and that to Longsford about 50 1 miles long. There are altogether 46 tooks on the carnt, which rises about 505 feet through 50 looks from Spanor. Dock to Millinger Lord, and thereoe falls 170 feet through 150 looks from Spanor. Dock to the first Camille. It is supplied shelfly from Lough Oud through a channel about 2½ miles long, near Mullingar, the top of the overfall being about 34 feat above the sill of the graving dook at Mullingar.

There one boar halfs to obtain the original southout of the canal, but the Board of Worles has been good enough to lead me a report, plas, and longstodited sention of the canal, made in the years 1893-44, to which reference will be made between

The complaints as set forth in the memorial of the traders and hoat owners are to the fellowing effect --

1. This since the Railway Coupany purebased the enal, and superially since they ceased to run their own heats and steamer, the welversy has become in many places so theired with weaks and made that during the unman rands the boat have not been she to earry saything him to their full course, thereby covering tota and disrupt to their trade and humanes.
2. That the whateign and waterbooking assummediation which existed at the time the Company

2. This the whittings and waterbooting nonremotation whith existed as the time the Company purchased the canh line hear allowed to deterious can fall it too dones, that in many places no such accommodation now exists, and that at the Spencer Dock is no entirely murflatent. Bitdone buring upon them compiledays, and upon other grievaness now specually inflored to in the

memorial, was given by the following witnesses:

1. Mr. Normy, general merchant, Mullingar.

3. Mr. Fost, Relly, bus owner, Kilcent.

3. Mr. Fost, general merchant, Longfeed.

4. Mr. Konnedy, bust owner, Bellymahen.

Mr. Kennedy, beat owner, Bullymahen.
 Mr. McDonald, beat owner, Capragh. Enfeld.
 Mr. Caffrey, beat owner, Summer Hill, Dublin.
 Mr. Florning, miller and beat owner, Longford.
 Mr. Leenh, beat owner, Summer Hill, Dublin.

Mr. Leech, boat owner, Stemmer Hill, Dublia.
 Mr. T. Byrne, boat owner, Clerk's Town, Enfield.

Evidence on the part of the Rulway Company was given by the following witnesses:

1. Mr. Taslow, general manager.

2. Mr. Myles, assistant engineer.

Mr. Myles, assistant engineer.
 Mr. Fleming, superintendent of the const.
 Mr. Williams, inspector of the const.

3.6. If Hallack Buyley are egiptors in charge of creat.
The critism's Manufact Buyley are egiptors in charge of creat.
The critism's Manufact Buyley are egiptors in charge of creat.
The critism's Manufact Buyley are regions in charge of creat in ferrour years bean outd be loaded to a depth of 44 ft, and eight years ago to a depth of 4 ft, thick depth, but been now reduced to 45 ft, and during pare of 18 as summer of 1883 to 6 ft, thereby reducing to a more reduced to 6 ft beds which been seen able to carry, and (2) that the accommodation as regards whatfag and waterbooms of the Seguretz Dack and other phoson or quite insidepants for the requirements of the any waterbooms of the Seguretz Dack and other phoson or quite insidepants for the requirements of the any.

Special continues of the second of the second of address for the second of the second

wavefurning commodation goods and the least to the teast compiler of good of the three wavefurning commodation goods and the least to the teast compilered of the three wavefurning commodation goods are required to the compiler of the commodation goods are required to the commodation goods and the commodation goods are required to the commodation goods and the commodation goods are required when the commodation goods are required when the commodation goods are the commodation goods and the commodation goods are considered to the commodation goods and the commodation goods are the commodation goods are the commodation goods and the commodation goods are the comm

nave received attention.

It was stand by the impostor of the canal that there were now 14 boars trading on it.

I will now proceed to detail my experience of the state of the canal so gained in the course of its
insection.

WEIDS.

These occurred in sufficient numbers to more we have impede the micropian between the six and picks, never the 15th older, never the 15th older, never the 15th older, never the 15th older, never the 15th older the 15th older, never the 15th older the 15th older

These weeds differed much in instrue and quantity, in tone places it was stated that they had already been out this summer and were a second growth; if vo, this would tend to show that a more effectual way of dealine with them should be a detected.

DIFTH OF WATER.

This varied considerably, and was as a rule greatest where the saxal was formed in beggy ground, and the surface and close to bridges. Soundings were taken as the following places (where it was so desired by one or other of the traders or beat owners who accompanied me on the imposition):—

Duping of Wazers,-Coold.

Locality.	Least Depth of Waterin the Width of Channel required for a Canal Steat about 135 ft wate.	Locality.	Least Dupth of Water in the Width of Channel required for a carnel fleet about 134 it, wells.		
	Ft In		Ft. In.		
colmine beidge	4 3	Cleararry bridge	4 6		
fayncoth	4 10	Between this bridge and Esfeld	3 9		
kalou near 15th lock	4 2	De. do	3 0		
fleeck	4 6		3 0		
Setween 15th and 16th locks -	4 3	Lie bre above Enfeld	3 0 3 0 4 2 3 9		
Ulcock hradge	4 0	Second do. do.			
a correspon near do	4 0	Kilmore bridge	3 10		
t about one male beyond 17th lock	3 0	Hill of Down bridge -	8 1		
is 24 miles beyond 17th lock	3 6	Durew' hridge	4 6		
Sub Took	4 6 4 2 4 0 3 0 3 6 3 6	Turlielon beidge	4 0 3 2 3 5 3 10		
lown's bridge	3 0	Near Richmond harbour	S S S 5 S 10 S 6 S 9		
altrona bridge	4 5	Do. Do	8 5		
	(rocky bottom).	Do. Do	\$ 10		
landerson's bridge	6 0	Near 63rd look · · ·	3 6		
oblin bridge (Mullingar)	4 6	Near 44th look	3 6 3 9 3 6		
Autom Brooke (commission)	(2 ft. at side).	Between 44th lock and Bally-			
isilway bridge (do.)	3 9	drum beidge			
arangonah bridgo	3 6	Ballydrum bridge	4 0		
four 19th lock	3 6	Begingh bridge	1 6		
(our 19th look -	3 0				
Conr Stat look	3 6	Langford Branch			
Cor squeduot		Newtown bridge	3 8		
hborshrule	3 8 3 4 3 6 3 2	Near do	3 6		
Do	1 4		0 0		
iallymahon -	1 0	At other places nearer Longford	3 6 3 9 3 7		
Lucher's beidge	3 0	Bailwayswang bridge at Longfred	3 8		

HARBOURS, PASSING PLACES, AND TURNING PLACES.

Take have in a large number of some few officers to spill up and bosons on builders at the protectely outside for their intended option; these negative complained of one between Handwicheners and Constituted Septemb, Killack, south side, between 10th and 16th below, between 17th 16th and Beliefal, between Colorine Beliefa, Solido, states are produced. Notework produced of Tessillo Hillings, Adhyshride Intervicient Series, Bold, Solido, states are produced, between a quodest and Tessillo Hillings, Adhyshride Intervicient Series, Solidon in parts, Toranic Intelliga, between Araby's Indigs and 40th India, Tetrleban belgin, Alley's harbor, more Pengala belgin.

Locus

1,00

The welfe of the forks are generally in a good state of repent, but, as a role, the lock gates are leaking hally at the streng, leading to a courtaint wante of water, and indicating the need of known statesiate to the maintenance of those shocks. Some of the gates themselves and the Emedies for working them were in a bed state of typic?

Townstains.

Complaints as to the state of the readway seemed justified by its condition in many places. There are

also occarroully holes in the towpath where the small blank has given way; there are, of course, dangerens to the bettere, oppositing win deaffer, and should not be allowed to cett. In numbers of phoses bushes have been allowed to gow up between the side of the towpash and tiss catal. These are a septem superferred to the braidings of the beast and, unless carefully weakfed for, are

liable to lead to accidents.

In many cases ecceptation gates, to separate fields, have been excepted across the tow-path; these cause a goat interference with the handage of the bests and are, it is believed, illegal encroschments on the tow-path, and as such aboutle due to permitted.

WARRISOUSE ACCOMMODATION.

With regard to complaints as to the want of this as the Spercer Dock and Breedstone, and then is their places the workness have been allowed to full into a state of decay; a suppart software than the contact of the state of th

exist to certainly such as to admit of considerable improvement. The want of footbles for passing from the Spanoer Docks into the River Liffey, though no doubt a senson geterance, hardly concess within the scope of this enquiry, the subject being dealt with by one of the

by these dated January 18th, 1818.
As to the change of the rowpath from one side of the small to the obter, those were principally caused by the construction of the rainway abragade of the canal, and hardly now admit of recordy.

The throwing of reduce into the same, which appears to be due to consecute (particularly in the ridgh-barrhood of kedgas), in a following against one of the systems and should be deal with assemblingly.

thamoton Library Diodisation Unit

Such being the result of my inspection of the canal I would now proceed to remark that the complaints of traduc and best owners as to its condition, So, are in my opinion well founded both as regards weeds and shallowapes. Is may fairly be assumed that during the five weeks which elapsed between the milway company being informed of the inspection and its being made, considerable efforts had been used to can the words, but even so there were the numerous phaces to which I have alluded where their number was still as great as to come a most serious obstruction to the hunlage of boats. It is evident that to keep the traffic on the canal free from the serious obstacle now caused by words, some more efficient means then are at present adopted will have to be employed As to the question of depth of water it will have been observed that according to many of the soundings

this dipth was no more than 3 ft. in the shallowest part of the channel required for the navigation of man boots shout 132 is well. In other cases where the depth exceeded this minimum, it was stated that the height of the water was from 6 to 8 inches above its normal level. As there must be some margin (at the very least 6 moles) between the available depth of water and the draught of a canal bant, it may be assumed that in the existing condition of the canal at the time of inspection these boots could not well be leaded as

as to sink them deeper in the water than 2 ft. 6 inches.

The hyelaw bearing on the subject of leading is No. 5 of the byelaws relating to the mavigation and use of the Royal Canal allowed by the Lord Lieutenans on December 5th, 1881, and runs as follows -"No nerson shall load a vessel on the canal deeper that 4 feet 6 insten or beyond such limits, at either stem or stem, as the officers of the company may fix by Public Notice

By this byshew it would appear that the depth of the canal abould be sufficient to admit of boots navigating is with a draught of 44 feet under ordinary errormatures. Whather the term "beyond combinings" gives the officers of the company power by public notice to reduce this draught seems doubtful, but at any rate the power has been sourced to exist, and between dune 14 and December 37, 1804, no loss than six public notions were issued, the first prescribing a depth of 5½ feet, the being refused to 2 feet.

8 inches on Sectioniber 39 and intressed to 3 feet 9 inches on December 57, since which time to farther notice has been i-sued. It is hard to understand how, under the existing conditions of certain portions of the right, which they claim, to call upon traders, do, to reduce the drought of their boats, it is married that this must be a right to be exercised only under exceptional circumsta see (such as the drought of 1893). and that when these have reased to exist the normal draught of 45 feet must be reverted to, otherwise the

company would possess the power of practically closing the canal, by requiring such a small drought as to render the traffic absolutely unremunerative

The complainants contend that, in accordance with the provisions of Sec. 36 of the Act of 8 & 9 Vac. a 119, they are entitled to have the small militations as so so allow (as it stated to have been formerly the east) of their beats being navigated with a draught of 4\frac{1}{2}\text{ feet, and the beyaker showe quarter (in the absence of the original reasons excitons of the count which I have note been able to delainly would appear to support this contention, as well as the depth of water at the lock sells, which is in no case less than \$\frac{1}{2}\$ feet. To allow of free navigation with bests of this draught the canal would require to be dredged to a depth co sauce on a secondary with makes or our creation test cause would even the first being discussed to a depth of on a which of about 10 feet, in this loss places where is been more been those immension.

James 3, Boylan, C.E., at which time it reposes that the tradice, doe, would have been estimated with a demand of 6 feet, the least depth of water recorded it 3d feet.

As regards hurbourn, passing places, and nursing places they have no doubt in the cases I have pointed out become grantically useless from neglect in keeping tham druged.

Astemion is much moded to the state of a large number of the sinces in the lock gates, the waste of

water, in consequence of their leaky condition, being considerable. Some also of the lock gates and headles

hours with a load of only 40 tons.

require repair or renewal. The readway of the townsthe much needs report in places; and the way in which the husbane of the boats has been allowed to be andangered by holes in the canal banks, and to be impeded by the growth of bushes at the water's edge, and by occup-iten gates across the towpath, is most objectional The complaint as to the want of proper wasebouse accommodation principally at the Spencer Dook,

and, in a losser degree, at Broadstone, seems amply justified. At other places where warehouses do caust. they have, in some instances, been allowed to fall into a etate of disrepair Deputations from the Town Commissioners of Mullinger, Ballymahon, and Longford waited on me in the course of the inspension. They assistent the complaints of the neuronalists, and pointed out the importance to their towns of the case an anxient the complaints of the neuronalists, and pointed out the importance to their towns of the case all navigation keing manuscained in a thoroughly effected manner, this being of special importance on the case of Ballymankov, which is 13 miles from any railway station, and of other places on the cand between Mulinger and Longbord, which places are more or less remore from the rullway. It was pointed out that whereas in former times the journey between Dublin and Longford occupied from 35 to 40 bours with a load of 65 tons, it was now, owing to the bad state of the canal, increased to 10

I have, do , C. S. Hotomisson, Maior General, R.E.

(6) -BOYAL CANAL

Board of Trade (Railway Department). 8, Bithmond Terrace, Whatehall, London, S.W.

Str. I Maye the honour to report, for the information of the Board of Trade, that in compliance with territions contained in the Order of the 3rd als. I have made an importion of the narigation of the Royal Canal, the property of the Midland Green Western Railway of Ireland Company, with reference to the complaints as to its condition, put forward by traders and heat-owners using the canal, more especially in regard to the Company's delay in earrying out the works necessary to comply with the recommendations for the improvement of the nevigation made by Major-General Hutoninson, C.B., in September 1894.

This canal was constructed in the last section; under the provisions of a churice of incorporation under the Great Seal of Ireland, dated Coxboler is, 1789, and under central Acts of George III. in 1789, and embanquant years, one of which Acts, 71s, George III. 20; 20; 20; cmprovered the Casal Company to make Decke on the acoust issue of the Casal Company to make Decke out the acoust issue of the Casal Company to make Decke Casal Casa

Bocks on the morth side of the Efter Leftey. In 1846 it was acquired by the Milland Great Western Ruilway Company under an Act of 1845, Vistoria 8 & 9, c. 119, the Canal Company and the Railway Company being offerwards merged into one Company.

Dy the 56th section of this Act the Company are bound to maintain the canal, and all the works connected with it, in as "full, ample and perfect a manner" as is required by the Act of George III., and it is upon this occion that the complainants rely

is upon the section that the complainant rely.

In 1870-74 the Spancer Dock, the present Dublin termines of the must, was constructed by the Railway
Company, who in 1877 chainful as Aré ambereiing the unitertaking, entriled the Madhaid Great Western
of Ireland Act, ind August 1877. 40 & 41 Vis. c. 139.

In the rotated of this instrument Act, it is stated that the Boyal Chanl Company had not evar-cred the

In our recession of the contractions of the contraction of the contrac

The state of the s

COURSE AND LESGTH OF CANAL,

The Boyal Canal actuada from the Spencer Dock, Dublin, to Bickmond Harbour, Chouslan, county Lettrin, and them through part of the Birrer Canalin, and a best eat, into the River Shannen, as Turnaubarry, and there are branches from the main canal to Braudstons and Longierd. The length of the count, is observed in the blook constrining the schedule of tolls and charge and the

The length of the conal, as described in the book containing the schedule of tolls a hydraw approved by the Lord Licotenant in 1831, it as follows:—

Miles.

From the Grean Northern Brillway of Ireband Bridge, near the first

lock of the ented, to Termenherry on the River Shannon 91
From Philishecough to Brookstone 0
From Killashes to Longford 96
Tread 96

Miles. Chains.

91 0
0 52
5 175
96 695

241

The above porsion of canal with lack between Richmood Harbour and the Shanton is maintoined by the Board of Public Works

LOCKE, MYC.

There are 46 locks, several of which are double locks, upon the canal proper, the first being mar the the Great Northern Halfway Bridge as Dublin, above-mentioned, and the 46th being at Highway Rashave

The smallest lock is 75 ft. in length, and 13 ft. \$\frac{3}{2}\$ m, in width, and the difference of level between the sell and the top of the smallest breast gate is 5 ft. 3 ins. The summit level, which is about 300 ft. above the level of the Spracer Dock, and about 170 ft.

The extends lived, which is about 900 ft, above the level of the Spencer Deck, and about 170 ft, above the level of the Elver Comin as Believanou Harbons, is about 14 miles is length, from the 25th lock near Küllacsa, past Mullingar, to the 86th look as Coolinabay. I was unable to obtain any drawnings thowing the original sections of the estant, but the engineer

of the Company to occur may charactery moving can originate section to the count, but the engineer of the Company has, since the date of my impression, sand to me a recon ascetter taken at Crochey, where the same, owing to a leak, had been ampical of water. This section shows a wideb of 6 ft. with the original hard bottom ologing regulary from the sales to the nature, where there is a dopph of 6 ft. of water, this depth of water as the oligat being about 1 ft. With this assettom there is a minimum depth of 8 ft. of water for 7 ft. 6 ft. on each abids of the court of the contract of the country of th

WATER SUPPLY.

The water supply is penuipally from Lough Owell, near Mullinger, which lough has an area of 200 percept into these are two other smaller courses of supply, one, a good supply, from the River Enthuries at Thomasteron balow No. 18 lock, and the other, during the wet season only, from a hand fram at Oselfogodbury below No. 38 lock.

The top of the overfull at Languige Owell is stated to be 85 feet above the office of the graving dock at

The cop of the ordern arranged twent assumed to be a real of the water in the lough was 2 it. It is not too look to the cop of the ordern.

Millingua, and on the day upon which I impacted it the larvel of the water in the lough was 2 it. It is not look to too of the ordernal.

It was altach that the water has not mun over the overfall during the last six years, the water most for

the eard being sun off as required, through one or more of three almosa, into the channal, shoot 24 miles in length, leading to the cenal.

Details as to the Lough Owell and Biver Estavoire supplies are given in a report made by Mearrs.

Betterm and Hemma in Ortological 1859. (68c Authorities)

SUMMARY OF COMPLAINTS.

The complaints made by the traders and heat-owners may be summed up as follows ---1. That the waterway is choked with mild and weeds to such an extent that during the dry seems the canal hosts came to be fully leaded, and that as all times great expense is thrown upon them by the mosenty of employing additional horses to drag the boats through the shallow and wordy channel, and by the inevitable delays due to the condition of the caval.

2. That the wider pertions of the canal are so thallow at the sides that only at very few places can two fully laden house pass each other, that the tuning places and the passing places, provided on the narrower portions of the rains, are mostly choked with woods and sucless, and that some of the harbonns are in a

 That the locks are not kept in a proper state of repair, many of the gates leaking bedly, superially through the sluices or racks, some of the land-racks having fallen out of use, and some of the stop posts or

5. That some of the bridges are too low for highly-boaled beats to pess under.

6. That some wharfage and storage accommodation which existed at the time the railway company

sequired the canal has been allowed to deteriorate and fall out of use, that at many places where it is required

there is no such accommedation, and that at Spencer Duck there are not sufficient borths for boats, and 7. That serious injury is exceed to traffic by delays on opening the swing-bridges at Dublin and Longford

 That the amount of work performed during the past year to carry out the improvements recommended by Major General Hutchmoon is trifling and of little value. 9. That byslaw No. 5 of those approved by the Lord Lieutenant in relation to the navigation and use of the corol is unreasonable, and is liable to be used in an arbitrary manner. This byelaw is as follows-

The control of the control of the control despect than few feet six inches, or beyond such limits, as either sixto or term, as the efforms of the consequency may fire by public notice.

10. That bythew No. 3 of these centirened and allowed by the Recorder of Dublin in regard to the sixto of the Specore Deck, presses very hardly upon the tradgers and beassens, who frequently have to waste of the Specore Deck, presses very hardly upon the tradgers and beassens, who frequently have to waste of the Specore Deck presses very leaving to the tradgers and beassens, who frequently have to waste of the Specore Deck presses very leaving to the tradger and beassens, who frequently have to waste of the Specore Deck presses very leave to the specific of the specific presses of

"No vessel shall ness from the River Liffey to the dock or from the dock to the river, unless within

two hours before and two hours after high-water of the day tide. The inspection of the canal, which occupied four days and part of a fifth day, was made partly from a

fly-best supplied by the Company and drawn by becaus, and partly from the bow of a mosal steamer of 6 ft. 3 in bean, and stated to draw 4 ft. 10 ins. of water, which steamer went through the canal to Richmond

Dock.

I was accompanied on my inspection at different times by Mr. O'Neill, the engineer of the Company, by
Mr. T. Forning, the superintenders, and Mr. Williams, the inspector of the canal, by Mr. Tuote, M.F.,
and by Mozers. Noscoy, Kelly, Kennedy, W. Finning, McDennell, Coffrey, Leech, and Byrne, traders

and controverse.

I was also met by the Town Commissioners of Mullingar, and by tenders and others at Kilecek,
Ballymanerrey, Ballymaners and Kichmand Harbors, who supported the sistements made by the bestowners, and urged the value to these places of the canal traffic, upon which Ballymanon and Ballymaners, owners, and urgon and said to trose proces or the canni train, upon which manyfinton and Ballymanarity), being towns at a distance from any railway station, are specially dependent. Dealing with the canal under the heads detailed by Major-General Huschimon in biaveport of September 1894 the following is the result of my inspection.

These had during the year been out throughout the canal, twice in many places, and three times in some, but, although they were in very few places as high as the surface of the water as the channel, they had grown to such an extent as to strought impode the progress of a best upon long lengths of the camb expectally as the following places: below look No 13, shower book No 14, between look No 10 and Sprin. ospecially at the feithiring places: blood foot No. 13, show book No. 14, setweet next No. 14 and Spini-belliga part Billock, herton in No. 14 and Killhouds, and in places as few as Nonemain between Dakin Billips and the railway bridge Mullingur, below look No. 26 (Coloniastay), tens look No. 28 towers and possibly Bridge, after Colonian Bridge to Tensilai, from Arrhy's Bridge to Alby's Billips and, room belt No. 42 to belt No. 43, towers looks No. 43 and 44 and for half a mid-below look No. 44 to Bully'm Billips The weeds were of mong different banks, and were presently are wone belowed Mullingur and Dakhin that upon the western half of the canal (except at a few phoes), the feetner section being so excepted with week

that hurdir a vard of the bostom of the canal was visible, as it was over long lengths of the latter section DEPTH OF WATER Making allowance for the levels being somewhat fuller than at the time of Major General Hutchmson's

inspection, the depths recorded by him bavebeen little absenct, except at Downs Bridge, Kilcock Faridge, and Dublin Bridge, where a little dredging has been carried out. It was stated that there had been some Dublin 1810gs, were a line uredging his below this bridge share is only 5 ft of water at one side.

In addition to those mentioned by Major-General Hutchinson, I also noted very shallow places between in concerns of more increased, and present an extraction and more very unamor placed believed (colorium Bridge) and Portection, at Clarinilla Bridge near Bridge, and Englanderroy, at Creen Bridge, Mullinger, at Clonkira Bridge, and generally between the Steh lock and Alboyharden, and at many place in the 60th lock between this lock has in Tarlikon Pringe, in the Broadstone branch, and at many place in the

Speaking generally, the banks seem to have been allowed to correach gradually upon the waterway, the sides of the channel being shallow on the greater part of the canal, especially at many of the under bridges, At a number of piace between Dublin and Mullagar I noticed subhish and senspings, which had quite recently been thrown out on to the banks and into the canal, evidently from the railway.

SELECT COMMITTEE ON TRANSPORT (IRISH SUB-COMMITTEE). HARBOURS, PASSING PLACES, AND TURNING PLACES.

Those appear to be in much the same condition as at the last inspection, only the following have been drafted out, vis --Mullingar Harbour (one-half).

Ballynacarriny-dredging in progress.

As a masker of last, most of the lie-byes, passing phoses, and turning places are useless, and together with the bushes along the where is and come of the hardware, require dredging.

There is nothing much to complain of in regard to the condition of the walls of the looks, although a number of the joints of the masonry require pointing, but there is great and unnecessary leakage at many of the gates, and especially as the sintens and several of the gates require remeal or extensive repairs, m working order, some of the gate stances cannot be lifted, and a few new stop-posts or bellards are required.

The locks in the worst condition are No. 26 (for which new putes are being made), Nos. 27, 39, 32, The locks in the worst on the canal, where now 54 (where a swing-beam is being replaced), Nos. 35, 39, and 42 (about the worst on the canal, where now gates are ready to fix), and No. 45.

These are in a number of places in a very bad state, the surface for long distances being dangerous owing to holes and projecting states and takes of cock, and the banks burney wern away, to holes and projecting states and takes of cock, and the banks burney wern away.

The weets places are between No. 1 and No. 2 looks, where the bank should be made good, Adv WCSS passes are unwested to a man Pol. 2 means, where has easier amount on making good, above, Backwardown Bellog, at Copyrage, at Choosaryer Bellog, an Laways Bringe, from Balliarman Bringe to Ecclared Harbour, as several places between this and Dahlin Bringe, and through Mullinger to Green Bringe, below that 56th label, at Cleaned Bringe, near Arrayly Ecclare and South of the Sock

The tends have been recently repaired at a few places, the bushes complained of as the less imspection have been cut, and the occupation gales across the towpath have been removed. A jone werhanging the path at May Valley requires to be trimmed up, and near the Green Hudge Mullingar, where it is stated that several sosidents have occurred, a read leading on to the towpath should

In many places the towpeah appears to be used as a public road, and this no doubt leads to some difficulty in repairing it.

WARRESUSE ACCOMMODATION Upon the canal proper the conditions in regard to warrisons accommodation are the same as at the last inspection, but at Spencer Dock two large warehouses have been cleared out and are available for use by the

ers. There are stores at Mullingar Harbour and Ballynacarrigy, but these are not in repair There are private stores at Ballymshou and Longford, the former being in use Representations were made as to the mossity for stores at Kilcock, and on another site at Ballymahon but no Royal Carial storus have ever been in existence at these piscos.

MESTING AT SPENCER DOCK Upon the day following the conclusion of my inspection there was a meeting at the Spancer Dock, which was attended by representatives of the company and of the traders and of the bost-owners

REPRESENTATIVES PRESENT. Honomable A A. Nugent | Directors Midland and Great Western Railway Company. Major Cossok G. W. Greece, Secretary. U. W. Grisco, Sectionry. T. Kilkoffy, Schottor. T. Tattow, Managet. Pursull O'Neitl, Engineer-in-Chief. T. Flerring, Canal Supportationdent W. Smith, Goods Agent. Nonny, Morekan, Mullingar. Thems Kennedy, Beat-owner and Trader, Bullymaken John McDennell, Best-owner, Cappagh, Enfeld John Cafrey, Boat-owner, Sammeralli, Dublin, Jos Lecch, G Byrne, Best-owner, Cherkstown, Enfeld Campbell for Mr. Lee, Merchant, Longford.

ORDERTON TO JURISDICTION OVER SPENCER DOCK UNDER THE ACT OF 1888.

Mr. Herbert Show, harristor at law, on behalf of the Company, quoting the several Acts of Parliament relating to the Royal Cumi and its sequention by the Middled threat Western Habitary Company, which Acts the Law constrained above, agreed that the September Description of the Royal Cumi, and that the Board of Trade had no periodiction over the former under the Act of 1888,

He pointed offs that the Royal Canal Dack and the Spencer Dock were by the Act of 1877 made one dock, to be called the Spencer Look, and defined as extending from the Great North of Ireland Railway Bridge to the River Leftey, and that the canal must be considered to terminate as the railway bridge In support of this last contestion he half stress upon the table at the commencement of the book of byea suppose of the sound state of the sound of Bridge, Dublin, to Tormonbarry on the River Shanner."

Mr. Shaw also pointed out that the byelows for the Royal Conal and the Sponcer Dock were under the anth-rity of two different persons, the Lord Lieuterant in the one case, and the Becorder of Dublin in the other, and in regard to the hye laws complained of, he urged that No. 5 byelaw, referring to the leading of being, was contained and was not used a distantly by the Occupancy, and that Ao. 3 byelses, insisting the time for the passage of boses between the Spencer Dock and the River Lifley, was outside the purediction of the Pouri case printing or means networks, our operand rooms are not maken Langy, who unsules has presonant not have bearing of Trains. Mr. Noctoney, in reply, stated he would not attempt to argue as to the legal position, but he pointed out that when the custal was originally extended to the River Leftry there was seen dook neconstruction for out that want in comments originary expension to and server heavy there was notice door necessarily server the use of the small traffic, and means of scoons to the River Liffey, and for this no equivalent had been given,

I informed Mr. Shaw that the question of jurisdiction was one to be settled by the lagal advisors of the Board of Trode, but that I would at any rate note for the information of the Board the matters complained of at the Spencer Dock, and report as to its condition.

WITNESSEE IN SUPPORT OF COMPLAINTS

Mesery Nooney, Kennedy, Kolly, Losch, Caffrey, McDennell, and Campbell gave evidence supporting the complaints made by the traders and best-owners in letters and memorials to the Board of Truda, as sumthe companies asses by the season and seet-waters in means and memorate to one source of 1781c, as sum-marised above, and described what had been done during the past year to remedy the defects pointed out by

Moork Society, George Connection, and Kelly also explained the need of some forfillion being given Moork Society, George Connectly, Campbell, and Kelly also explained the need of some forfillion being given for knothing and wardening goods as Spector Deck, Mullingar, Ballymandrig, Ballymabou, Longierd, and Altocok, and also for the suprovenees of the whert on the Breadstone branch, and the despering of the Altocok, and also for the suprovenees of the whert on the Breadstone branch, and the despering of the property of the suprovenees of the suprovenees of the suprovenees of the suprovenees the suprovenees of the suprovenees of the suprovenees and the suprovenees of the suprovenees of

WITNESSES ON BEHALF OF THE COMPANY

On briball of the Company, Mr. O'Neill, gave details of the work does to improve the marigation during the pact, which work comprised:—The centring of the words; the deporting by dredding at Khook, the definition of the details of the details of the words; the deporting by dredding at Khook, Bridge, and Daklin Bridge; the centring of builts and frees out the tow-paths; the finite of the great of the control of the details of the details of the details of the details of the great of the control of the details of the details of the details of the details of the great of the forming, that however, request one conting or nonnece star erece out this temperature; the its mag of new gates at the 10th hole, the other posternotion of new gates for the fields and 47th doors, and the general repeals of the gates and the hard before before the removal of the occupation gates arrows the tow-path; the require of the tow-path hanks at places, the removal of all decided books if the region of the wing-wait of exit over introduce, and the posting in order of the canal stores at Spencer Dock.

Mr. O'Neill also stated that he had received coders from the directors to purchase a steam dredger, which

he admitted to he absolutely necessary for the proper maintenance of the mangeties.

Mr. Taslow, the manager of the Company, gave some details of the teaths, and explained the manner in which some of the storehouses at present balonging to the Company at Spenser Dock and other places had been erected by private persons and afterwards sequired by the Company.

The conclusion at which I have arrived after my inspection of the Royal Canal, and having had pointed out to mr, at different tames and pieces, the svils complained of, is that there is ample ground for most of the complaints which have been ledged as to the state of the mavigation

It is difficult to ascertain with any degree of accuracy what was the condition of the canal when it was sequired by the Company fifty years ago, and therefore difficult to determine the excess liability of the Company under their obligation to maintain the excel in as good a condition as it originally was, has it occurs only fair to assume that, as in the approved byelaw is in laid down that beats are not to be leaded deeper than 4 ft. 6 ins., it lies with the Company to maintain the carel with such a depth of mater that beats so laden can pass frody along it. This implies that the water-way should be at least 5ft doup over a sufficient width for the boats in general use, the largest of which are shout 13 ft. in beam, and the deep chinnel should therefore be nowhere less than 15 ft. in width, with a groater width where necessary to allow two laden hosts to pear on the other. Clearly this is not now the case, for although I had with me throughout the impection from and senor. Contry can is not how me case, for account 1 and with the accountance we impressed from Dublin to Riskmond Harbour a steamer stated to draw 4 ft. 10 fms, this measure was only 6 ft. 3 ms. in bean, and it was with the greated diffinity that it could proved at several places, anothly in the reach above Kilcook, between the 38th lock and Abbeyshule, and between the 44th and 40th looks, while is actually grounded under Cloabrin Bridge, and was during a groat pert of the journey chunning up the mud and woods

by the action of the screw, and consequently unable to progress except at a very low rate of speed, he action or me acree, and consequently unnote to program covers as a view one case to appear.

Throughout the canal the sides have in most places silted up more than the centre of the channel, and it. is therefore any to understand how difficult it mass he for wide houts, even when not loaded to the extreme limits, to be dropped through the studios and weedy ranches, and what a loss of time and unnecessary expenditure of home power are entailed. This is sko shown by the orderes in regard to the time occupied

by the journeys, and the number of bosses required now as compared with former years. Judging also from the very inadequate means provided for the dredging of the canal, and the removal of the words, it is almost beyond question that the tendency has been for the canal to become shallower from year to year, and for the passing phoes to become more and more solted up, and I have very little doubt that the condition of the navigation is worse now than it was fifty years ago, and that having been allowed to deteriorate for many years, the canal is now in such a state that a considerable expenditure will have to be inversed to restore it to while it should be.

Up to the present time the Company appear to have entirely mesapprehended the assistion, for taking as correct their own statement, by the month of their engineer, as to the works done during the past year, it is patent that with the exception of a general cotting away of the bushes, and removal of the sates correding the towpath, and possibly the provision of three new syst of look gates, and a little extra drenging as Mullingar and Ballinanarragy, the whole of these works have been nothing more than ordinary works of and uneconomical methods of despening the canal and removing the weeks, and to purchase a steam dredger to earry out this work.

to early use. One were.

Is support of this view of the amount and nature of the work does, I may state that zince the list imposition, a year age, the increase in the staff couldport on the caral in represented by two additional corporates and considerational belouter, and although resist should be given to these in undicate charge of the caral for design below that the means at their disposal, it is influence to suppose that took additional as these could enable them to carry out any extensive improvements. At the time of my inspection there was no want of water, for at many of the locks it was running over

the top of the breast gates; but the waste of water, consequent upon the lenky committee of many of the the very of the press game, one are where or water, consequent upon the tency commutes of many of the gates and shares, is so great that it is apparent that there must be a deficiency in the dry season, when, as For this reason it is most important that no time should be lost in renowing a number of the lock gates

and in patting all of them into a good state of repair, esponsity the upper or breast gates, which are always son in presents of its team made a groot scatter or reputir, especiarly seed upper or necessary groot, which has defined upon the vestor, and which, it must be allowed, are now as a rule in a better state of repair than the lower or radius at real gates. The provinted of new gries at No. 26 lock, and the repair to those at No. 25 lock the sower or tall gates. And provision of new gates in No. 20 toos, and the repairs to stoos of No. 20 took will, no doubt, have the effect of maintaining a good head of water in the samm's level, but this will not be of much use so long as excessive looking to going on at any of the lower looks, as water will have to be racked down to maintain the depths in the lower lovels.

The deepering of the waterway, and the principal he-byts and harbours, by clearing out the mud and The despiring on the state way, and the principal in the state of the immediate improvement both to the banks and the surface of the towpoth is much needed to many other

As to the warehouse accommodation at other places than at Spencer Dock, it earned be dented that as the principal towns and villages surved by the canal the provinces of storebuses would be greatly as one principal storms one visages acreed by the count was position of shorteness would be greater to the advantage of the traders, and would probably secretae the traffic on the canal, but the erection of buildings have never existed, appears to be a matter entirely for the consideration of the Company, who chould, however, be present to put into a proper state of repair rock stores as are now in their passession,

and tone wearers as any community.

The manager undertook to consider favourably an application made on behalf of Mr. For for the introvenant of the Broadston branch opposite to some private stores of Mr. For, where is in difficult at

present to land goods. Another matter complained of is in regard to the hondway under three of the bridges-viz., a feetbridge over the canal at Maymooth, a railway bridge over the canal at Clossilla Junctice, and a railway bridge over the canal at Kilpotrick Bridge, Mullinger. I found that the beadway was about the same in all three cases, viz., 10 ft, and as the last-named bridge was in existence when the casel was sequired by the Company in 1845, and the sanction of the Board or Warks was obtained to the exection of the two other bridges, one of which, that as Cloruffla Junotees, was inspected and passed by Major-General Finetheasen in 1888, I do not see how this matter each be remedied, although no doubt the loads of turf passing along the

canal must be to some extent hunted in height.

could must be some extent humbol in bright.
The delays at the stop of the ledges as Longford, and at Dublin roar the commensurement of the
Spinner Dela, we, no doubt, portly due to the necessary requirements of the Beard of Trade that roat
ledges must be so include that they smant be opened when are signal to the see a seria to appearable, but
are should be taken to delay the possage of some as table on portline, separably, separably but
are the second of the the earn't somewhat earlier in the morning and conservint later at might shim as present, when the special permission to use the considering the sight preservind by loyelse No. 10 has been obtained. The complaint in regard to bytake No. 5 maps, I, think, be use by some abstantian in the wording

thread. It has always been in issue to one sign or another, and is long as it is not need in an arteriesy manner. I do not see any objection to it, provided the canal is properly freeligh and weeked, because it is married than in the created of the depth of water being reduced by extreme drought. exceptional cause, the studers and boat owners should be informed by motice of what is the greatest depth to which they can safely load their boots; but it can never have been intended to mean that the Company where every the second was their news; was it can never have been interned to mean that the Company should be able, in the event of their neglecting to maintain the canal in a proper condition, to reduce the draught of the houts at their will to any extent they may think lit, and it would be monstrone if it were so

It should be made clear that the power to reduce the draught of the beats by notice is to be valid only during an exceptionally dry season, or when from some unavoriable sendent the proper aspth of the water

During the part year the Company has issued no notices reducing the draught, although, on will be guthered from this report, the pensage of leasts drawing 4 fs. 6 ins. of water has often been trappenble. As to Spenger Dook, the compliants have been to some extent met by the clearing out of the two ware house, and the manager has promised that the what in front of these warehouse shall not be obstructed when it is required for use by the extel bests, so that, so fite as warehouses and wharings at this place are concerned, no further action would seem to be required.

The book into the Elver Liffey, however, needs requir, for there is a great laskage at the sill of the inner guies, as I myredi now, although, owing to other duties, I was not able to wait to see the look filled and couptied at dead low water.

The amount of water thus robbed from the canal is very considerable, and necessitates water beauty ranked down from the canal for the benefit of the dock, which the Company contend to be no part of th canal, and this is manifestly unfair If the leakage at this lock and the other locks be stopped. I see no reason to doubt that, in a very short time, is will be found practicable to collect such an amount of water in Lough Owell that there will be an

ample reserve store to full back upon during the dry season. The number of busts trading upon the cased is only 14, or at most 17, so that the amount of water used legitimately at the looks is small, and very much less than in former years, when, as I am informed, there

Byelow No. 3 of those relating to the Spencer Dock, and approved by the Recorder of Dublin, is one which affects other interests booking those of the Royal Casal, via, the public of Dahlin in regard to the use of the very busy street alongside the river at North Wall, and the navigation of the River Lifley, and these interests should be represented, and very careful inquiry should be made, before this byelaw is

There is no proper towpost into the Spencer Dook below the first lock, the boats being drawn down by man, and I observe that the path which has to be used by these men is decidedly dangerous as far as the commencement of the Spancer Dock, owing to its roughness and narrowness, and its proximity to the railway strings, while alongside the dock itself it would appear that it is often obstructed by timber and other materials. These are matters which the Company should be called upon to remady, at any rate along

The Assistant Secretary. Badway Department, Board of Trade I have, &c., (Signed) F. A. MARINDIN, Major, R.B.

APPENDIX.

RETRACT from REPORT of MISSER, BAYRMAN and HEMANS ON BOYAL CANAL and LODGE OWELL. Dublin. Srd October, 1859.

To the Chairman and Directors of the M. G. W. Rallway Co. GENTLEMEN

We have excefully considered the question of how far the Royal Canal is capable of affecting a supply of water to the city. From a measurement taken by Mr. O'Neffi about 12 months ago, the quantity supplied was then about 8,400,000 gallons, but it is now supposed to amount to at least 4,000,000 gallons a day.

Lough Owell has, when full, a surface of about 3,500 seres, and it is fed from the water flowing from 5,100 seres of moderately rising ground, surrounding the lake. The outlet of the lake has been artificially embested and a depth of it, can be drawn off for the snaply of the canal.

Observations on the rainfall at Billiminek, a few miles from Lough Owell, show that during the years 1854, 1857, and 1858 the average fall was about 30 inches per annum, and as those three probably all drier shon monal, thirty mehas may be safely assumed as the annual rainfall at Lough Owell. From this quantity must be deducted that which is lost by suggestion from the ground and taken up by vogetation. In sterlar districts where observations on this subject have been carefully made there seems

to be a pretty constant loss of about 15 inches per summ, as the supply to the lake from the surrounding district. The rain which falls on the lake is just sufficient to supply evaporation from a water surface, and must not therefore be taken into account in estimating the quantity which can be collected A register of the maximum and minimum beight of the water in each year during the last 19 years has been furnished to us, and from an examination of this it would appear that we would be warranted in taking a greater available quantity than 15 inches, but in the absence of correct data it is onfer to be guided by the

facts which have been carefully obtained clear bore. note which may be seen Getting outsimes centrones.

Fifteen inchées on 3,100 would produce a total quantity of 277,695 00 cubic feet or 4,755,092 gallons
fauly. The expectey of the lake, taking it at 2,300 sortes and 4 ft. deep, is 392,040,000 onlite feet and
therefore appalos of belifting marry 18 mangfor fooliection.

to recourses on the cutal may the	refore	be sur	Demi	тр яв	foll	093 -	-			Gallons per day.
From Lough Owell From Rathwire Biver		-	-	-		-	-	=	Ē	4,775,062 2,500,000
be demand on those resources is a	s follo	Wil jeen								7,275,053
						Gallor da	s pec		Mind	mum dady vield.
For the lockage of 50 boats po Evaporation from the canal in	dre we	k – eather	- of	- Ma. 1	neb	500,			7	,275,052
per day on 300 acres, say		-				600.	000			
Leakage and waste, say -	-	-	-	-	-	300	000			
For railway purposes, stations,	dos .					200,	000			
						1,600,	000	my	- 2,	,000,000
						Surp	las	-	5	275,062

				To	NYAGE	and	Tola	s for the	first	half :	of				
				1894.								1896.			
	-			Tone.		Fells						Tons.	т	lolls.	
January	-			2,389	£ 161	6	gl. 9	January	-	_	-	1,7431	£ 98		d. 10*
Pohrusz	y	-		3,035	190	18	9	Februar	r	-	-	188	9	14	9+
March	-			3,102	215	0	5	March	-	-		2,437	346	6	7
April		-		3,062	223	18	3	Apeil	-	-	-	2,973	240	15	6
May	-	-	-	3,454	278	16	6	Мау	-			3,796	261	13	4
June	-	-		4,018	299	4	0	June	-	-	-	3,4115	220	18	6
				19 191 5	1 500	_						14,5493	1,055	15	5

Decresso in 1895-tons, 4,571; tolls, £808 9s. 3d. * The exceptionally severe weather in these months must be taken into account. dispers

(c) Shannon Navigation Office, Litzerisk,

15th September, 1906 As per instructions received on 24th and 28th ultimo, I made an inspection of the Royal Canal, the

property of the Midland Groat Western Endlers Company, from the Conflic River at Richmood Harbour to the River Liftey, mainling the Lengtherd Branch, Broodstone Branch and Longh Owell supply owns. My object was "to determine in how far its present condition was comparable with a condition of the condition was comparable with a condition of the condition was comparable with a condition of the condition was comparable with the Crondition working order such as the Grand Canal," and my report is based on a ecoparism sets the Crondition working order such as the Crondition was comparable with the Crondition was comparable with the Crondition was comparable with a condition with a condition was comparable with a condition was condition.

The inspection occurred nine days, ending on 5th instant. Soundings were taken from and to end, togother with 55 cross sections. togetors: with no cross sections.

I was necessipated on my inspection by Mr. Parrell O'Nell, the railway company's engineer, and by the assistant, Mr. Bratland, C.E. They divided the journey between them.

The total length of the canal and its branches as a little over 97 miles The book which accompanies this report gives a commany of the depths in the Canal, the depth of the lock sills, with a short account of each level as to its condition and condition of trackway. I also attach the 55 cross sections taken-

Locas

The chambers and walls of all the looks are in good order and repair. LOCK GATES

With the exception of the 14th lock, the lock gates are in good order and repair.

In many cases considerable leakage taking place at the Deep field sills when passeng bargest through the lock. (Many of those can easily to required, the locked being short, and the water easily run off). But as a whole two year in better condition than the agree on the Grand Ganal. whose very are in neason occurring than the gates on one various cause.

The inner see gates at the Leffey are very important, and about be made right without delay Dry dock gates - with the exception of those at the Broadstone branch they are all in had order and

not safe to poss in boots DEPTH OF WATER IN CANAL.

From Richmond Harbour to the junction with the Longford Branch the causal is shallow, narrow in engion, and choked with woods. From the main line to Longford, s.e., the Longford Branch, the canal is shallow, wordy, and has

bushes along the edge of the trackway. From 271 railway rails post to Enfield Bridge (1 mile) the cental is shallow from 4 ft. 3 in up., also the conal from the 5th to the let lock the section is narrowed and shallow, and looked bosts cannot get within 17 ft. of the bank to discharge

in 11 rs. or the name to distinguish.

The Breadstone branch is also shallow and disty. The presing places in most cases require dredging. The balance of the canal both in section and depth of water compares invocrably with the Grand Canal,

The bridges do not appear to have been cleaned out for years, and the nonumination of gravel, etc., hinders the true flow of water through none, although, with the exception of the undermationed, they one pass local boass through trely—Toom Bridge, their Lock Bridge, fill of Down Bridge, Ribbot Bridge, pass local boass through trely—Toom Bridge, their Bridge, 10 and a depth of from 4 ft. 8 m.

0.178

Bridge and the 12th look.

All nours.

The Harbours all requires some finit developing, expectably the following, viz.—Port of Richmond Harbour, the whole of the Longdond Harbour, Keepig Beding Harbour, the Harbour 1,700 Sets shares Month Bedings and Abaymonds Harbour. There has the does not made a shared been gratted alongs to disable two gratted alongs the disable two gratted alongs the disable two gratted alongs along the capts to disable the control of the state of the state that has entered the Richmond better far past pive years, and one per work in the average to Longford Harbour, at leads, so I am influenced.

Wante.

Whence the worst feature of the earl, making hashgo very definelt and heavy on horse. Between the following places the worst were very last, vis. ——joth lock and Longicot, "Langicot" Bridge and 30th lock, 30th and 50th lock half the lorst, March and 10th lock, 30th and 50th lock half the lorst, March Bridge and Serving Bolloy, 18th lock and Drivery Bolloy, 18th lock, 18th loc

The general condition of the treakway is very face. Long standards are used by the public, and are described near the condition of the conditi

LOUGH OWELL SUPPLY CANAL.

The supply from Lough Owell to the could is in fair order, but the hidges, of which there are aims, are man, affed in.

The depth of water unite the one matrest the could was 4 feat 3 inches in the courte and 3 feat at the side. Under the other sight hologic there was from 3 feat 11 inches down to 1 feat 11 inches, the third hidge having only a depth across of 2 feat to 1 feet 11 inches; the consequence is that the water does not

pass revely to the earns. On extraining the water book at the abuse bosse I noticed that the "nicks" of (abise) rack up — on the 9th and 30th six, was 18 aschs (7 aschs = 9 rms), on the 31st alt. there were 28 up; and on the 1st and and leat. 8 up; in other weeds, a goodly supply of water was east down during the day and night of the

The dredging forement informed me this her average speed while dredging was four Irish perches per day. The author of inding the mount on the bank might he respected—when I have bee disading, a perion of each grab-full lifted was allowed to also hack date this count. This dredges is not compaled of dredging the food chambers, being mashle to lower the grab to a sufficient

A such best at Kilcock reduces nevigation characters, being enable to lower the grab to depth. There is no nease in existence for dredging out the bridges.

A such best at Kilcock reduces nevigation charact by nearly half and is dangerous to traffic.

CONCLUSION.

The semination I have surrived as after my important of the Royal Casal is that with the exception of a following lengths, we: Bahmouf Harborr to Longdist, including. Longdist Harborr, the Royal Land and Freen the first to the Sale look; it compared favourshly with the Gread Caral or ragards depth of writing, evolution of the looks, look goods heights and including a looker after the complete first matters as the following were standard to, its, contains of the week, look the complete first the matters as the following were standard to, its, contains of the week, contains away the horse great first the matter as the following were standard to, its, contains of the week, contains away the horse great the week of the contains and the contains the cont

because the send outside has been given as the send of the send of the send of the send outside has been as the send of the send outside the s

A large with according to men at intervals along the small is the mathed adapted to cut this words, the being being glated sorts the sured to step the florting weeds, has when a read or other head course along the hirge is drawn to one side and a quantity of weeds float swary; they also compare owing to the shape of the harge, and the injected into a man much hampered for miles with floating weeks.

and you consider that miss risk make configured for miss with floating words.

It is not continued to the configuration of the configur

In Section 1. Section 2. The section 2 is a section 2 in the section 2 in

The man is observed and a low at the weeds, if kept on during the season, would easily keep the caral claim. The man is observed as observed as the work in the most contentiod way.

The number of tending houts not during the forest in the most worker of the man and the season when the most content of tending houts not during the impositor (in mine days) was eight at work and one brings are.

made dialised by the University of Southernoton Library Dialisation Unit

I noticed that the water empty to the rown of Mullinger is drawn from the Lough Owell unperpresent Mullinger has a population of about 6,000—and between Mullinger has and Dahlin, Rown for emptying water to pirvate residences are quate numerous, and soarly all the Endwey stations tanks are supplied by Rown, the water water of which its most consection sole multi- to this cared. The quantity of water so takes must be very large

F Dunday Flavours, Inspector, Shannon Navigation, 15th Sept., 15th Sept., 1906.

APPENDIX No. 6.

STATMENT of the Irish Conel Boso Owner's Association, showing the present conditions of, and the met of ingeorements required in respect of, certain assistons of the Grand Conel, Ireland, applicantizaty is the avolution given by Mesce, A. A. Office, K. C. Altopace and M. J. Alwyliv, representatives of the Association on the 10th September, 1918.

1. Sching. Natural Schilder—Interpretable tools, the—Irredging of the Waterways as well as better

mooning foodbites and discharging bertis, particularly in respect to the erroller section, the errotten of shads over the Dry Docks at Possbelle, so that loats outd be repaired during was and indonent weather. improvement of locks, so that the larger size of barge might pass through without being damaged by the projecting iron mountings which are attached to the gates; transe and storage accommodation are had y

preded at Dublin, Hazelhatch and Salling

2 Settler Salless to Nuns and Salless to Louteurs—These sections of the Canal have not been kept in good order within recent years; they have not been properly dredged, and are gradually filling in with most, crosses are required at, amongst other places, Sallin, Nine, and Robertztown, and would facilit to the loading of uniber, etc. The Grand Canal Co, have neglected to take sufficient care in according all the looking of mallon sis. The Gread Gatal Co. have neglected to take suffices a me in ascepting all the mounts to which they are cataloid, sump viscous in this copied have been diversed from the Conti-nuation of the continuation of the continuation of the continuation and the continuation of the look of the continuation of the 3. Section; Esthonogon to Mounteellish.—No dredging has been done in this section for years past, and

3. Serien; Indianyan is Massimoliki—No Gredging has been once in this rection for years, past, and the curryant quasticy of larges, piring thereon, has consequently been reduced; the work statistics, leaguing at the Bachangan and are as follows: "—in. Kiltworn Berdge to Unions Berdge, distance I mile, any analize and surrow; Ballyhelly to Messimerum, Gorceson one only, very habiles." Forces Berdge to Proceedingson, distance 2 miles, and Peratiringson Danwierdge, at which place is laist of 30 tons is searcily the past when the search of the past with water is not a feature level; in the stread of 3 miles from Francis fridge to Peratiringson distance. it is impossible for two bosts to part, owing to the passing places being silted up from want of dredging. it is impossible for two towns up per, owing us are passing places using among up now want or creeding, the water between Mountariellick and Mounterevan could be considerebly improved by the Triogne simply which feels the Cenal pear Mountmellin, and which has a never-failing supply of water, being recogning which from our count near mountains, the importance of this latter point counted to exagginated; the want of storage accommodation, on this section, for goods carried by hye traders debers them from earreing many

classes of goods. 4, Series: Monatterons to Carlor —The Canal from Monatterovan to Athy has not been properly deedged for year; gast, and there as an assumability of rank and weeds: from Athy to Carlow the margathen is via the Elwer Energy, and the Canal is particularly that at Ariesigh look, where management avergation twis the Rever Servey, and the Genetia is particularly had an Archevigh book, where many cames or down an despoise to support course, to be list of water; and to boast averging explanation of the 50 to on a relicious and the support course, to be the contraction of th at this point motor heats are held up in heavy weather owing to the rapidity of the stream. No dredging has been done at this point for many years past, trees have been allowed to full into the river and have gethered up mad on the bank opposite where the Lery runs in, which reduces the size of the charmel and increases the rapel, the werre have also been grossly neglected. Much dredging is required at Carlow to increases the depth of Movement and occupied were proposed. Amond or sequence as a target to be light and before they one occupied with the sequence of the proposed and the proposed as the proposed as the light and before they can do so, except in very high water. One may not propose any proposed as which laster place there is a large timber trade. Tell on nature grain—Carbov to Janua's Street Harbour and to be the pre-ton, this has a resemble and to be the pre-ton, while he cannot have proposed as the pr used by be its per form, thus may resumely used ranses to us per con, with the resume sums producing an grain is now each by rail. Tells to Carlow per ton mele are higher than any other sanifar station, such as Portarington or Athy. Owing to the sumsatisfactory methods of the Grand Carnal Co. the Carlow Gase Co. Ltt., who have a cond saling to their works have found it nece any to get all their ood, averaging 1,700 tone per annum, from Dublin by red to Carlow Station, where it has to be loaded on erric and and have either reduced their traffic by hoat or discontinued is altogother.

and have attain realized their trainer up some or measurements in anogenerar, in places; there are a simple-or dead in the state of th

particulars concerning this section.

0.128

particular convertible to a Talkarete.—This section needs an amount of developing, especially from Killmener, budge to Bullytes the Berligs to Bullytes Berligs, from Killmener, who from the convertible from Briefs to Talkarete, who from the the Talkarete place from Briefs to Educatory (from looks No. 23 to No. 23, and from No. 25 to No. 27, and from No. 25 to No. 27, and from the State of the Conference o its tributaries, which help to keep up the water supply during the Summer and Autumn seasons, also bedly need cleaning. Beats execut earry a full load during this period. The entire channel of this section, as well as the passing phoses for beats and berths, are in urgant need of dredging. Mooring pasts are required, as is also the entiring of banks on the healt dide, so these obstructs the passings of boass haaling hoats. For four miles of this stretch two beats are unable to pass. There is no steepe seconduction or crassing in this section.

accommodation or crames in this section.

Signed on behalf of the Irish Caral Boot Owners' Association,

ALGERMON A. ORGUM. Hos. Secretary.

The 22nd day of October, 1918.

To Sir Arthur Shirley Benn, M.P., Chairman,

The Irish Sub-Committee on Inland Transport,

The I'ms Sub-Committee on Initio Transport, House of Commons, London.

APPENDIX No. 7.

Statement of tomospo carried over the Grand Caval system, including tomospo carried by the Grand Caval system, including tomospo carried by the Grand Caval Company on Rivers Stomon and Extres with the year 1912, tenneritted by Mr. H. Phillips, General Manasser of the Grand Caval Company, after this ordiners on 11th September, 1918.

	d Can			ny, as	ACC II	IN CVI	weater	00 .	I tou	aepro	guer,	LULI		Tor
General	Mench	sadir				_		_		_	-	-		
Gram						-		-	-	-		-		52.9
Flour	_	_		_	_	_	_			-				11.2
Megl	-	-	_		_		_	_	_					- 8.4
Male			_	-				_		-	_		- 1	- 23.7
Indian C	orn			-	-	-	_	_	-	_		_		- 81
Bean										-	-			- 41
Porter					_	_	_					-		- 37,5
Timber	-					_		_	_	_	-			
Tron				-	_		_							- 2.4
Machine	m sed	Cost	vec.		_					-				
	.,	-		-										
Coal and	Calm													
Salt	Contro													
States, T	10 D	G.L.		-								=		5.7
Ote-			E 334											
Bacon														
Hax and														
Rags, Bo	Part of the	J TRE		-										
Grano, a	mes oe	AL SALE	134.										-	19.8
Coment	OU AL	MILE	11. 00#	aure					0		=			
Oil Bare	C													
Potrolege	CHER													**
Whisloop	n on													
						-								10.5
										-	-			- 2.7
Stgar	. 7													2,2
Dya Wor	XI		-	-										
Mineral		76		-		-					-	-		
Seeds	-	-	=				-	-						: :
Famita	76	-									-	-		
Catale, I	Moor,	2750						-						
Turf Mo	nad an	ia Pe	nt Li								-	-		
Sand		-	-											- 23,
Stone	-						-		-	-	-			- 6,
			-	-		-						-		- 33
Wool														
Dury M	AMUITE													

GEAND CANAL COMPANY.
Tomage of Dublin and Carlow Traffic carried by By-Traders on River Barrow from 1st May

1917.	Bost.	Tons.	1917.	Bost	Tons
May 10th	74	46	July 4th	39	60
10th 12th 23td 23td 23th 16th 23th	74 83 22 3 24 22 22	46 41 49 49 46 46 46	July 4th 10th 2nd 17th 9th 18th 18th 28th 17th 31th 31tt	39 20 20 3 3 5 5 50 20 22	60 61 63 63 63 60 63 63
19th	98	4.0	964	95	438
23rd	3	43	17th	3	42
29th	24	- 65	Sth		43
1.68 h	22	- 64	18th	53	40
93th	2	45	8415	59	40
			9623	60	437
June 22nd	9.9	453	179 h	09	40
1583.	52	45	31st	24	42
27th	53	- 44			
sceh	11	40	August 9th	16	40
30¢h	8	48	led	99	42
192h 27th 30th 30th 194 56h 59h 49h 67th 199h	99 92 80 111 8 83 83 22 22 22 24 84 8	45) 44 44 49 48 43 46 45 46 45 46	August 9th Sed 21st	16 92 3 3 94 11	40 42 46 40 46 40
Sth	3	46		3	40
Sth	22	46	Slat SSed	94	46
456	22	45	104	11	40
6th	24	46			1
19th	8	44	September 1st 11th 19th	3	46
11th	. 3	46	110	3 94 99	45 47
			199	99	47

GRAND CANAL COMPANY.

Tourage of Traffic carried by By-traders on River Barrow South of Carlow from 1st May to 30th September, 1917.

Date.	Bont.	Tous-	
1917. May 7th 11th 14th 94th 21st	77B 53B 947 947 14B 847	35 34 30 30 30 33	Graigne to St. Mullins St. Mullims to Greigne Graigne to St. Mullims D. St. Mullims to Graigne D. Mullims to Graigne
19th 25th	95B	30	Do. do.
June find 14th 20th 23rd 50th	947 15B 15B 947 15B	36 36 56 40 36	Do. do. Do. do. Do. do. Do. do. Do. do.
July 3ed 4th 7th 11th 16th 17th 21et 31st	77B 58B 21B 947 77B 15B 77E 52B	35 30 33 38 36 36 26 81 39	Gorialeridge to St. Mullins Graigne to St. Mullins St. Mullins to Graigne Do. do. Do. do. Donings to St. Mullins St. Mullins St. Mullins Donings to St. Mullins Donings to St. Mullins
August 2nd 3rd 4th 5th 8th 14th 28nd	947 77B 81B 16B 17B 18B 947	388 492 40 32 37 31 43	St. Mullins to Grahges St. Mullins to Chabgamy Do. do. Do. do. Do. do. Doulogs to St. Mullins Graigus to St. Mullins St. Mullins to Grahge
September 7th 7th 7th	Coolswu SSB TTB	36 35 42	Do do Do Do do

GRAND CANAL COMPANY.

Boots passing over River Barrow between Carlow and Goresbridge frem 1st May to 30 th September, 1917.

Date.	Bost.	Tone.	From.	• To.
1918.			New Boss	Clarlow
May lat	Meg	94	New Trees	Gazon
Ind	26	28		
3rd	70	25		
4th 10th	28 70 18 70 27 M	25 25 25 25 31	Bagnalstown	, n
15th	10	30		2
1000	32	20		
16th 16th 16th 16th	16	31 18 94	New Ross	
1010	18 63 39 30	9.6	Barracore	Waterford
	39	226	Carlow	Waterford
	30	29	. *	St. Mullins Carlow
22pd	18	25	Cenigor	Carisa
	244	25	Barracore	
2813:	.52	27	Cesagna	
June 4th	944 32 69 32	265	Carlow	St. Walkins
oth	71	200	Craigue	Carlow
1110	18	30	Clashesony	
2006	10	97	Creigno	
11th 11th 10th 12md 12md 12md	92	99		
9346		80	Goresbridge	Craigne
Inhy Red		15	Catlow	Creagree
9th	44	31		
July 2cd 9th 14th	63 .	25	- 2	Curlow
14th 17kh	44 63 38 10	225 25 25 25 26 26 27 26 27 27 28 27 28 20 27 28 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Cesigue	
27th	10	15	Allenwood	Ramabtown
19th 52th	969 63	27g	Cestgree	Carlow

_			_			-
	GRAND	CAMAL.	Corress	Y-Cont	road	

Dute.	Bost	Tona.	From	To
July 94th	2734	94	Carlow	Crairne
2617	263(Ciagos
4382	87M 18M	26	2	
August 14th	1550	307	Leightin	Dublia
16th	36	35		
18th	69		Vicaratown	Waterford
94th	32	36 371 371 371		
21:4	434	371	Leighlin Vicaritown	Dublin
93rd	70	377	Vicaratown	Waterford
280d	16M	371		THE RESIDENCE
20e-0	13%		Portarlineton	
246h	55 25M		Portarlington Dublin	Certifica
984h 994h	2530	378	Loghita Vieurstown	Craffere Dublin
99th	63		Vienzstown	Waterfred
seth	27M	36		i n
20th	55 39	36 33 37 37		
30ch	33	37	vi vi	
31st	41	37	*	
3 but	32B	30 37 87	Carlow	Crafena
September 1st	37	37	Vicaritown	Waterford
5th	63	87		
56h	69	37		
6th 5th	7M	35	Postsrington	1
83	50	37	Vicaritorn	
658	41	37½ 37½		
160	18	375		1 -
10th 11th	8M	37	m v B	
15th	730	33	Duten	Leighton
17th	43	36	Dublin Craigue Vicacatown	
22nd	41	354	Leighho	Waterford
9354	44	37	Leigano	Dublin
94th	94	35	Vicuzatown Leighlin	Waterford
20th	34 71	35	Leignin	Duttin
29th	32	34	Dublin	Graigne

APPENDIX No. 8.

NOTES on the Angua Minusg District transmitted by Mr. Wa. Tallow, B.A., Director, Arigan Mining Company, after his critices on IIth September, 1918.

The Arigan discrit comprises the Valley of the Arigan arver which runs that the South-Wook corners of the Lough Alter and its mornation which lie on each side of the valley. These mountains

cone or, an indigen and in an the momentum which lie on each side of the valley. These mountains rise to an divastion of 1,000 fest and uppends and an energoned of our flowester, which correspond to the lower coal measures of Lancasitirs, and which overlot the Carbotiferous Limatoins which cours as an elivation of about 156 fest above see level in the Argym Valley. To coal measures have a total philocopes of from 200 to 1,000 feet and contain source of each, shales, to the distribution of the coal measures that the coal measures the coal, while, the coal of ferencing balls, name of its ord, and alloyed not a standard the coal procedor.) The same of

could in recursion beaus, statum of are city man suyers or fair's management uses 1000 supprisoners. All measure and could an general below question flow and entivation of from 900 to 700 fiets, and the could in stitute on through a safter derives into the side of the common flow of the management o

carried on at Dramahamb by St. Francisco. Intuition by the short the year 1100, and are now weeks men changes and building. The destruction of the fact first, producted which were carried by water to Burnels and Dublin. The destruction of the fact first, production of the fact first production of the fact first production of time was brought into soveraid operation in England, when beautiest (Policy) started were in A singen, song put does a substantine for charyond. It is which the "the quality of their productions in rig and but from vice creation, but they become ordurance of "the quality of their productions in rig and but from vice creation, but they become ordurance with the contraction of the production of the production of the production of the production to the first form, large

works, pertly from sudden alterations in the money market and consequent virtualization of trook, but gains pully from want of aspital as the course." (See Backhark paper on Commugita Coal Field refurred to below).

The first the fullure of this centerprise attempts were made to review the from insulary, and a report on the Arigins from Works was made in the year 1800 by Mr. Adom Greave, who describes a blast frames of feat

Argan Iron Weks was made in the year 1890 by Mr. Achn Greave, who describe a blast framee of fear high and 12 September 2 and the lookes and four overshow Waterwheels for driving machinery and other plant craising as the works.

A abbought report was made in 1804 by Mr. Toomes Greax of Dawlasi Iron Works, Gianergambire, outmating the outsy which would be required to report the Works. These reports are given in full by Sir

Robard ferilds in his "Grobgeol Report on the Comments Color but were a latest Ribes or given in man by our bother in 1818, a copy of which for peatured in the National Library, Doblin.

The regognithm made is Mr. Gund's report some to have been despriy extrict out by the Roghild Company which took over the muse and iron works in the year 1834, and in 1838 as many as 3,000 men are said to have been also an employed in a fair own works and ought of gifts of the distance.

The trees works were established on an elaborate scale, and the remains of bashings and furances furished in cut stone still form a feature of the landscape. The arch of No. 2 Fernace been the date 1831

ont in the stone work. The remains of two inclines for lowering the coal are still visible, and the course way of a transvay for bringing coal and ore to the turnson still runs up the valley for over two tails, and in being stillised for part of the course of the new railway. Three iron works were finally dead 80 years ago when the Manager was nurdered, and the fron one have never stuce been worked there.

It appears, however, that an iron works was stated at Crocrolies, which lies further north between Lough Allen and Belhavel Lake in the year 1862, but the partners in the undertaking fafled and it was

closed down within a few years does down wasses now years.

A Company called the Lough Allen Coal and from Co., Ltd., was formed in the year 1873, to work the
coal, from and other infinerals on the extate of the lise Col. E. K. Tentron at Augus, comprising some 4,237

of which 640 acres contained coal. The Company, however, never did any work. The Arigna Missing Co , Ltd , was started in 1888 with the object of developing the coal and other nmerals in the district, chiefly in order to supply the Cavan and Lei rum Railway, which had then just been completed, with fuel for its locomotives more cheaply then it could be imported from England or Scotland.

This Company has been in continuous operation since its inouttion and has met with a very fair measure of speces in spite of the great difficulties at had to contend with, the east having to be carted over an extremely bad road with heavy gradients for a distance of from 4) to 4) miles to Arigna Sistion. The Company has restricted itself hithere to raising coal and quarrying flags. When, however, the new railway to completed the raising of iron ore and fire day will become practical, and with improved implifies these industries may become of great importance as the iron ore deposits are very abundant.

the Boden real regions of the state of the computer of very accordance to the following the boden real regions of the following the state of the free forest free forest of the free for they cover large tructs.

"The quantity of rich ironstone they contain is onormous—literally in the strictest sense, inexhaustible," Under modern conditions the smelting of from ean only be carried on profitably on a very large scale, and it would therefore he mecousary to calcino the iron ore legally so as to increase its richness in iron and then to expect it to the large iron works in England or Southand for mixing with other orea.

The proper classes of coal which exist in the locality will suffice for roasting the iron ore, and for making fire-brick from the fire clay.

Some analyses of the day ironstone in the district are amended. CLAY INCOMPRIS OF ADDRESS.

Sir Robert Kane (Industrial Resources of Ireland, page 135) gives analysis of clay Ironstone from Arigns, being the mean of five different samples. Protoxide of Iron

Lime Magnesia -Almnina -Insoluble Clay Carbonie Agid -

He says: "As none of these were picked specimens, the average of all of them may be fairly calculated as the material available on the large scale at Lough-Allen, and this contains 40 per cent. of metallic iron." He states that the loss by calcination should be in average 31.33 per cent and the calcined ore should contain 58.2 per cent, of tron-

Mr. Patrick Bushan, in the paper referred to above, gives very similar analyses (pages 16 and 17) for No 1 Carbonate of Iron -Carbonate of Lime and 11.93

Magnesia. Soluble Alumina Clay and Silica. Organic Matter 100 Metallic Iron -35.5 per cent. \$8 per cent. ANALYSIS of Sample of Iron Ore taken from the banks of the Arigna River, made by Mr. Williams McD. Mackey at Leeds, October, 1918.

Protoxide of iron Peroxide of iren Mangapous oxide Lime 480 Magnesia Phosphoric subvdride 2 71 (consis Phosphorus, 1:18 per cent.) 0.96 (equals Sulphur 0.14 per cent.)

100

Iron disulphide Selica -Titaroum dioxide -Carbonaceous matter Carbonic soid, combined difference)

those ores -

The following is the analysis of the ore calcined :-

						ES 000				
Paraxide of iron						 59:47	(equals	Iron, 4	1 63 per cer	6.)
Manganese perex	ide .					0.93	(equals	Mang	mese, 0 67 p	er cent
Alemina -				-		6.96				
Lime -					-	6.52				
Magnesia						5:46				
Phorobocic subvd	rbio ·					3:65	(espan)s	Phospi	iorus, 1.60 p	Jano Tra
Sulphuric anhydr.	de -					0:47	(equals	Salpin	ar, 0:19 per	ceat.)
Silico						14.61				
Titanium oxide						0.30				
Alkalies etc. (by	lifferen	(00				1.62				

Mr. Mackey stated:—

"I consider this a good elayband stone showing a fair pressurage of irro; a facture that should give be stone sporial values in the high percentage of phosphorus. It will rould a rigi irron containing over 4) per cent. of phosphorus, which will be axcollent for basis purposes. The greatene loses on eakhasting, 243-5 per cent.

FIRE CLAY.

The following note on the fire clay of the district is also taken from Mr. Burban's paper (page 25):—

"A general analysis of the various sames shows the fire clay of the district to be of very good quality, and well adapted in every repeat for entiting fire-faction, for the eventuation of fernaces, credible, glossbosus pots, par retors, atc. It contains:—

Pure fire clay follow and Alumina)

Stop

Oxide of free 142
Line 0.99
Water and organic matter 1499

As the most higheren constituents of fixed-py are, lims and saids of most, it will be seen that the quantities of these embearces constitued are harmless, in stallings to the analysis, small one of brinks has proved them to be of minimized quality for severe two by first. Speaking of the martiers for thirts, and of framiliar condities, but she for the bester most by first. Speaking of the narrow of the contract of contract of the contract o

The Arigon Mining Company is an greasest working three infines on the secule side of the valley, the same in each case averaging about twenty-sero induce in thickness and being worked by somes of about accuracy that all with a goal in gradual rather being only one offer the purpose of variations. Provision or now being made to bear the coal by means of induces or repressys to the new ruleway which as 400 test to 500 feet below the cult. Very little terminal into loss experiment with water, and pumping is only measure.

SOU took follow the house.

The makes are fortunately also tree season of 100 gallous per hour.

The makes are fortunately also tree from inframmolds gas, probably owing to the expeasure of the man record the sides of the mountain. It is estumated that the seas proble over \$2,000 teen of good ced per sex, in addition to a considerable quantity of small coal, or edin.

The Arigan Mining Co. has also taken a considerable quantity of coal from a resen at Settonaveza-

The Angies Mining Oo. has also taken a construction quantity or coal row a team at Settinativers on the north acid of the river and it is expected that this mine will be recorded before long at it was easily be connected to the new rafflway by a repressy. The coal obtained in this mine is rather more finishe than that can the south said of the river, but to otherwise of good quality. In addition to distinct worked by the Angies Mining Co, an important privately owned mine is worked on the scotl odd of the railing, whole is endoubtably expelse of every considerably obsorbed overlyment.

The following analysis of coal faces the Consequent missions been made specially for this record in September of the poor by Mr. Wim. Ma. D. Maskey at Leads. No 1 Sample has been taken from the nines nearest to Arigos Station, and No. 2 Sample from the most westerly of the three must worked by the Company on the south side of the valley.

Volatile matter other than water		17.64	16.59
Water		0.78	2.84
Fixed Carbon (by difference) -		× 72.46	72.30
		100	100
Pounds of water evaporated by one	pound o	1 1/01	10.70

per cent. 7.68

Equals British Thornal Units per lb. - 13.340

Those ramples were chosen to represent as nearly as possible the average quality of the coal at present being taken con.

Analysis of Samples taken from the mines in the years 1914 and 1916 are also given below.

Analysis of Coll from Arigans Company's Old Mine (intermediate position), made by C. Lyle Jones,
Westham Testing Laboratory, 1914.

Curban
Hydogon
Orygen
Orygen
Combatthio Selptor
Lacouteaulita Selptor
Lacouteaulita Selptor
Anderson Incontrouble Solptor
Moisture

Analysis of Coal from New Mine (Westerly Position) made at Mesers, A. Guinness & Sous laboratory, November 16th, 1915.

Specimen 1. Specimen

matory, November 16th, 1915.

Sperimen 1.

Volulle matter

Volutle matter

10.54

11.61

Volutle matter

0.55

0.7

Ash dried in compts

6.5

0.53

0.53

The feet that the Artica Mining Company has serviced for the past thingy years, and has been able to pay researched children's to its reharded of dense give power part of this parted, whereas all previous understakings in the district stilled after a very short canteron, may be ascribed very largely to the evidence of the realway reading up to Artica Studies, and now that to line is being actended up the viriley an exa of prospectly and increased predictiveness in view.

The consumers of our left Board too loss that the Company as it will be possible to end the coal at

least 30. a ton cheaper after the cartage has been cluminated.

The analyses given above those that the could and iron cree in the district are of a high value, and given categories, good management, and good transport fastifities the district has very great possibilities.

SECTION OF THE ARICHA COAL MEASURES GIVING THE STRATA IN DESCENDING GEORGE.

Fundatone day and shales 60 to 100 fk 8 to 12 inches Upper Coal (known as Crow Coal) 3. Dark grey Shales and Sandstone 100 to 200 ft 30 to 30 inches. Coal with sandstone rood Fireelay floor -White sandstone -Dark Siliceous Shales no floor 32 to 40 inches. 40 to 60 (s. 10. Green Shales and thin beds of Sandstone 11. Little Coal, slater 8 to 10 inches. 12. Fire clay wrought at Arigns -7 to 15 ft 13. Grey Sandstone 14. First great Sandstone

 Dark Shales without Ironstone. Ironstone Shales with numerous beds of Ironstone, having an estimated equivalent thickness of 16 to 30 t. of Ironstone beds.
 Limestone Shales.

Limestone of unknown thickness.
 No. 3 is the coal same at present heing worked.

4th October, 1918.

0.178

WHATAN TAYLOW.

APPENDIX No. 9.

STANDERSY transmissed by Rev. J. G. Dogon, Director of the Arigan Mining Georgest, Limited, an amplification of the Revisions given on 118 September, 1918. Chooseabir (Lough Byan, B.S.O.), Co. Leitem, 19th September, 1918.

The Company's territory extends to 3,004 oreas, situated in the mountaints on both sides of the Arigan.

The Company's territory extends to 5,034 serves, streamed in the soundaries on both isless of the Arigua-Valley, and thely show here for some contains expectating for a large accustance of their mining rights. The Minesaks arishible area—Coal, Iron Orr, Fer Chip, and Fings.
The Coal, the repoly of which is a grantially fractabulouslib, in a risk binuminous coal, smech superior to Scooth coal for steem purposes, and is also well adapted for decreasit sows, while for sanding sit is sourcely, at a call, inferior to the less Width cells. It is largely said by the Course and Listin Endbryt Company for

all, inferior to the best Weish cost. It is largely used by the Cavan and Lemma constive purposes.

Analysis's a 1889 by Professor Tinhborne, it gave the following percentages:—

| All Angles | All Angles | An

In 1910 it was analysed by Mr. Cyril Fox, Lecturer in Mining, the University, Birmingham, with the following results .-L475 per cent. Yolatile Combustible

14.675 4.250 Solid Combustible "A very small amount of sulphur prosent, while the colorific power is high."

In 1914 an analysis was made by Nr. C. Lyle Jones, of the West Ham Testing Laboratory, as Sollows: - 84.13 per cent -As dried 84.84 per cent Hydrogen -Oxygen -~ \$.50

- 0.71 Combinatible Sulphur 05.1 Ipoomhustible Sulphus -- 6.26 0.83,

In 1915 the Cavan and Leitrim Railway Board had the Company's coal analysed as against Allerdale THE OF THE CHANGE THE CONTROL DESIGNATION OF THE THE PROPERTY OF THE THE CONTROL OF T against 78.36 per cent, in Alberdale coal, and the calculate value of Arigms coal exceeded that of Alberdale by 11 per cent The iron ore was analysed in 1888 by Dr. Tithborns, and in 1889 by L. S. Jones, of the Sheephridge

Coal and Iree Company, Chaeteriski. It was found to yield 57 per cent, after calchastion and to have a high market value, especially for the manufacture of Basic Steel, there being a high content of Manganese.

Professor Cyril Fox, Lecturer in Mining, University, Birmingham, reported upon the iron ore in 1910, showing 32.07 per cent. Ferrous Iron and 33.16 per cent. Total Iron. Si Röbert Kans, in his book, "Industrial Resources of Treisnd," pages 134-138, gives Arigno Ore the place of honour above Staffeedshire, Welch and Glasgow (Ordinary): the figures being Arigna, 40.0, Staffordshire, 34 a5, Welch, 36.75, Glasgow, 31.6 raw ore; and olderted or—Arigna, 52.8, Steffordshire,

50.2, Welsh, 52.35 and Glasgow, 45.8. There are enormous deposits of iron are in the district. Many years ago they were worked to a considerable

extent, but the lock of hoolage facilities killed the industry and the extensive stone buildings are now in rains. unia. The Fire Cloy has of Insoluble Silica, 20.40 per cent., Combined Silica, 18.72 per cent.

The Pir Chy has of Incolable Silins, 20-40 per cent, Corchined Silins, 20-40 per cent, Austran, 20-41, per cent, Magnish, 24-5 per cent. He has very stailing composition to more on the heat Chyrin Bughed. The Arigon Fagastons is a kind of militatos gett very bard and extremely uniform in characteristic throughout It will not sever to a pollabel surface. In Sween equally, It is unified surface in concession. Friedman Thichterin, companing Arigina tings with Kiltrach flags, "Forermain-and Calchaness promotions that which refige to the time simulation for endourn Thighips and have the highest man simulation for endourn Thighips and have the highest man simulation for endourn Thighips and have the highest man for the production that which refige the production that which refige the simulation of the content pulging and have the highest man simulation for endourn Thighips and have the highest man simulation of endourn Thighips and have the highest man simulation of endourn Thighest and have the highest man simulation of endourn Thighest and have the highest man simulation of endourn Thighest and have the highest man simulation of endourn the production of the content of the con of all the stones examined

of all the stooms examined.

Increase of output. A railway being provised, the output of soal alone can be normand from 12,000 from not present of 2,000 from not present of 2,000 from per amount, and three will be alone a large output of firm one and other norman from the present of the construction of the Ballawy will goods adultional, Border for the miners, as weekers can be excited each meeting from the neighbouring villages and towers and book rapid to the ording, this of the globe of the present of the globe of the present of the ballawy will be would rear now be available hete for the distance. of the mines from populous centres and the difficulties of the present very had mountain read

APPENDIX No. 10.

J. G. Dioms.

PROPOSED Schame for Improvement and Development of River Staney transmitted after criticose given by Colonel Lafter A. Bryon and Mecars. Wor. Areatrong and Joseph Ryon on 19th Sept., 1918.

To the Irish Sub-Committee apposated by the Parliamentary Committee on Inland Transport. Mr. Chairman and Gentlemen,-Following the attendance of Deputation, and evidence placed before your Committee of Inquiry hold at Wexford on the 12th instant, or above, we heg respectfully to place year Commentee of Inquirty sous as vectors on toe 1200 missess, re-acours, we see supersonant or possible following review, and stabilities, and a report, and plant, doe, prepared by our negments, Moure, Kaye Party & Rose, Dubbs, of the groposed scheme for making navigable the Bive. Sizesy between the Port of Weather and Emissorythe.

even the Peri of Wesferd and Emissorthy.

(1) The River Sharey his nost-supposition with the Peri of Wesferd, the natural commission bightway for the produce of the North, East and Smith East of the county Wesferd, and considerable pairs of the counties of Carley, and Wicklow, to the South-sewer of Englands and Wilsel, and for the produce of the pro

as it limits the extent to which railways can lower the rates to such entourier in order to obtain a monogoly of traffic, and bence provents the extinction of local sources of coupleyment other than It is actually in itself a source of prediction of a commodity (gravel) of high-chas,

It is actually in itself a source of preduction of a commodity (gravely or ingression of a commodity (gravely or ingressing inportance, in view of the wast extension of work in resistence concrete. Up to the increasing appertunes, in the same the amount of water-bone traffic upon the Slaney. Before and in those years, cots or barges of a capacity averaging 50 tons plind between Wexfeed and Engiserethy, and goods of all classes busines coal and gram in import and expert respectively were carried by them.

The amount of coal thus earlied may be estimated as 15,000 tons, and of grain as 5,000 tons, exclusive of general merchandise.

After the optiming off the Dichlin and South Eastern Redway and its extraction to Wenford the infinite of the Few of Wenford agreeding distinction. The resembles of the Redwards of Dichlines and Dic terms as to the tradic rates, with the resulting effect of abnot total paralysis of local manufacturing

(2) Grain handled for expect in Engineerthy.—There are at present ten morehants engaged in the expect corn trade in Engineerthy. The total amount of grain leaving the town initially in 23,000 tons.

This membandise is now intically carried by rail. Were a water-way open to the town the saving to the community would be very considerable, great progress might be made in storing. naring or not community would be treety consumented, given progress might be mixed in storage, grading, and marketing core, and the impetus given to agriculture might be considerable.

(3) Coal and General Merchandine—The imports of coal, animally, amount to 18,435 tons. These are areas recognized cost merchands. The coal, with the acception of a very few special coals, is now actried by rail. Were waster carryage open, the saving in cost of corriage would be

at teast is, per ten, or a total of £4,523 annually. The earriage of general merchanduse, once counderable, has coused altegration. All such traffic is ried by ratil at a very considerable less to the community. The total Imports and Exports is

120,000 tons annually,

(4) Possibility of developments in Knisting Industries.—The industries at present existing in the town and neighbourhood are one bases fastory, with a capacity of some 105,000 sides per somms; two savnulla and woodworking establishments (one co-operative); one carriage buffder; three manument; two foundries, two potteries; one wooltest toky mell; one marginise interpr; and one extensive maling. There is not the slightest doubt that every one of these establishments would benefit greatly by the revival of river traffic. With satisfactory river transport, it is probable that considerable saving might be effected in the price of coal for she general purposes of industry. With water corresponds
Wexford is in probable that satisfactory business might be done with the West of England, and very version is in promise four distributory terminan migns of outsi when one well of England, then very much greater softwhy in the manufacture of tweeds and bisabelings might result. With elsepter coal and water carriags to Wexfeed, the local clays—admirably adapted for the manufacture of drainage and and water extrage to western, the freed cays—monitory scaped for an influentiate of trainings and capitary water—might simply not only Emiscoriby the Wasferd (looks considerable toward) with great saving to the community. The avoidance of transligness would have an important effect in cheapening

of the greatest value to the whole of Ireland night result. Promotion of New Industries.—It is impossible to predict the result of a really estimatory transport system for Enniscorthy. It is the center of a large and suportant agricultural district. The of Wexford, and increase in the supply of eattle due to better transport, the supplies of manure will be

(8) The value of gravel to be obtained from dredging is by no means namportant. The actual on in resource work has recognized one fourth the total cost. The use of controls in all construction

value in previous work has recouped one fourth the total cost. The use of controls in all construction is duly growing in importance. The gravel dredged from the Elver Slaney is an absolutely first class material for the magnificance of concrete. Coment works exist at Woxford, and will probably develop considerably, and it is by no means impossible that other sement infinitries may be started.

We recasin, Gamlonee,

Your obedient Servants, PATRICK O'NELL, Chairman, Urban District Council. Sed. War P Caury Hon Secretary of Committee.

48. Kildare Street, Dublin.

BIVER SLANEY NAVIGATION To William P. Casey, Esq., Secretary, Improvements Committee, Ennisourthy

As requested, Mr. Ross visited Emissority on the 19th inst. with a view to enquiring into and solvening your Commetton as to the practicability and probable cost of improving the navigable channel of the river Slaney, so as to enable small stramers to trade between Ennisorthy and Wexford, and

possibly some cross-shannel ports, and we bog to report as follows — We have read over the reports of the evidence given before the Committee, but we have confined our invastigations to the subject referred to m, ser, the question of the improvement of the course of the Slaney by dredging.

The town of Eunisemethy is situated on both banks of the Sisney, about 15 rules above the town of Weatford, which is built at the mouth of the river.

For many years a countdonable traffic has been carried on on the river by means of small sailing.

boots. Before the year 1800 a quay wall was constructed on the cast bank of the river, and a similar wall was built on the wort side about 1835. These quay walls are about 500 ft. long on the cast side, and 1,000 ft. long on the west side.

They are fitted with moseling posts and stone stone, and are in every way suited for dealing with a large volume of traffic if the river were rendered navigable for steam We understand that your Committee considered that the depth of the water should be a increased as to allow vessels drawing about 7 ft. of water to come up to Ennecorthy from the sex. In 1795 a scheme was hought forward by Mr. Browning, C.E., for improving the navigation

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0.178

between Wexford and Emisearthy by the construction of a cased extending from a point on the cast code of the river a sheet distance below Emiscoethy to Pooldarugh, about 6 miles further down steams. Malting, however, appare to how how done on the workship of the publish change at the time, but in 1813 Mr. Vagnotes, Cl. R. is a report dominated by cost of dreight and depending the history of the town and the approximents of the town and the approximents, assumed to cost of dreight and depending and depending the second of the cost of th and maps made by both engineers were about to us, and from them we obtained some valuable information.

Although not acknowledged in any of the documents, it is quite evident that Mr. Vignoles derived the bulk of his information from Mr. Browning, and practically adopted his proposals and copied his plans. The canal otherse provided for a dam seroes the river, so as to miss the level of still water at the town and down to the entrance to the canal

and notice we are enumers to use cause.

The scheme, while signifies a ready and effective channel for the larger craft, would effectually block the river passage for smaller saffing beats which night not wish to use the look.

Applications were made to the Board of Works for a less of \$50,000 to carry out the work, and the Board seemed inclined to grant the money, but for some reason the work was not proceeded with, but

the quay wall on the west side was constructed about this time. The proposal now is to dredge a channel wherever shoul water occurs with a minimum width of about 40 ft. and of such depth as to allow of vessels drawing 7 ft. of water to come alongwide of the oneys as or near high water of neap tides.

Time did not allow of our making a complete survey and notions of the river he!, but from the levels and observations we were able to take, and with the satisfance of the rouge which were kindly lent to us by Mr. O'Fisherty, we estimate the cost of dredging the channel, and including the erection of perokes or buops to mark out the fairway, at the sum of \$11,212 10s -cleven thousand two hundred and twelve

pounds but assumpt secreting.

We had conditionable difficulty in arriving at a figure, owing to the very extraordinary state of the We had conditionable difficulty and the state of the s be hoped that prices may come to some more settled level before long.

We are establed that generally speaking the channel once formed would tend to improve owing to the disturbance of the sand by the churaing action of the screws, but of course a carrier amount of nomicons dredging would have to be provided for, as gravel and sand will contents to come down during floods and

be deposited in the shoals.

We submit herewith a map of the river and some sections which we have prepared, and on which we We do not propose to carry out any dredging below Pooldarragh, as we are sourced that there is ample depth of water below that point, except as the mouth of the river as Wexfeed, where a consistential amount

of silting has taken place. All the bridges below Runiscorthy have opening spans, vin -Edecuáne -Killurin Farry Carrig . 30 ESTIMATE. 145,000 cubic yards dredging at 1/- per yard Four pasting phases or Lie Byes at £150 Perches or Busys at 20 positions, 40 at £50 £7,150 0 600 0

1.462 10 . 0 £11.212 10 0

(Signed) KAYE, PARRY & Rose, 48 Kildare Street, Deblin

3 000 0 0

APPENDIX No. 11.

Engineers' Fees and Contingencies, say 15%

STATEMENT transmitted by the Wexford Harbour Commissioners supplementary to the evidence given by Mr. J. J. Styfford, Chairman of the Harbour Board, on 12th Sept., 1918.

In order to keep Wexford Harbour navigable it has always been necessary to constantly drouge the Outer Bar, and also the channel leading up to the quays. outer har, and also one ordered maning up to the query.

— on In the year 1904, owing to the constant shifting of the sands, the Bar became unnavigable, in fact,

In the year 1205, owing so use continue humang or one means, our man persons ommergator, in use, it reasts of 1900 tons or over hint to be lightened before they could come in.

In these circumstances the Communications had to berrow \$10,000 to purchase a suction dredger, in order to keep the Port open; at the same time they had their bucket dradger working inside the Harbour.

origing to War conditions the Steamer running between Waxfeed and Liverpool with general eargy was commandeered by the Admiralty, which meant a loss of about £1,000 per annua to the Harbour Board The restrictions placed on the experission of grain, etc., and on the importation of coal have seriously affected the Commissioners' finances.

The result is that they find themselves involved with a debt of over £16,000 to the National Bank, The result is used to by most immunered according to the past three years, unable to pay the interest on the which they are unable to pay—in free, they are, for the past three years, unable to pay the interest on the loan, and in order to raise meany to keep the Port going they had to dispose of their two dredgers.

No dredging was done since 1911, with the result that Gulbar and the discharging boths at the Quaya An utrial-group, were unasse state; (211), where were recent alone determined as the unasse frame, the white lists of the control flar go that the shipping is sectionably their friend without the control flar go depth which has been ratiously on the past of years (and fullars as either of water on the control flar go depth which has been ratiousling to the past of years (and fullars as either of past) or senting to be feet of water cannot control. up to the Quays on neap tides.

From its geographical position Wexford is one of the best distributing centres for the south-east of Ireland, served with two lines of railway alongside the quays, connecting with the Great Southern and Western on the routh side, and with the Dublin and South-Restern Railway on the sorth side. The Harbour Commissioners maintain that if the Government came to their aid and sarried out the

accessary divelging the trade of the port would mapfully increase, and as a consequence they would hope in future to have sufficient funds to continue such davdging as they would find accessary. They ask that the Sob-Committee on Inland Transport would by the facts before the Government with

a strong recommendation that a druleur would be at once sunt to Westerd to carry out this very innortant work.

APPENDIX No. 12.

MEMORANDUM on the Port of Waterford and its position in regard to the question of Inland Transport; submitted by the Water feed Harbour Commissioners as supplementary to the evidence given on their labelit by Mr. H. J. Peeds and Mr. G. A. Wolf on 18th Suprember, 1918

Waterford, 5th October, 1918. The trend of the Commissioners' enquiry leads us to believe that they consider the increase of facilities at ports offering not only shipping recommediation, but also special advantages as collecting and dustributing studies for inland traffs, especially water-bone, to be a matter of national importance, and that in markinglain it is of smootance that such tores should be made suitable for desiling with tomance of larger size and greater carrying capacity than in pro-war times

It is also submitted that in view of the depletion of tenunge it is almost equally essential that the time

spent by a ship entering port, discharging her cargo, re-leading and again proceeding to see should be This Memorandum has been prepared to set forth the position and the claims of Waterford in this

connection, and to suggest what steps might be taken to ingresse the existing facilities of the port.

As a port. Waterbord is very favourably situated, both so to its position in Ireland and its proximity to English weatern and southern ports, and its oversons and constal trade has always been considerable. position as a collecting and distributing centre for inland traffs is exceptional, there bring six lines of railway redigiting from the port in different directions, with three navigable rivers and a certal. The port has also an radiating from the port in different directions, with three navigable rivers and a caral. The port has also an excellent trees channel service with steamers trading regularly with Glasgow, Greenock, Liverpool, Cardiff, Bristol, Fishgeard, Flymouth, Southampton, Newhaven, Dover, London, Belfast, Deblin and Cork. On those grounds we subout that Waterford has strong closins to your favourable attention and consideration. In now regarding for us to lay before you engreetions for increasing the present facilities of the port

and enabling it to deal effectively with the altered conditions foresholowed after the war. These suggestions are as follow:-

(1) The despening of the river by removing parties of the outer bar below Dunesmon, making a cut in the inner bur at Cheekpoint, despening the Queen's Channel, and maintaining the depth thus so can a see some one of Ossekpain, conjuning an species standard, and abhiliating the depth this formed by necessary droughing. At present results drawing 26 feet of water one only come up to Waterford on spring tibes; on neap tides they require to be lightness before doing so, while outside always or over 18 feet have to wait for two shours flood. These bindraness affect both the outward and inward straffic and sometimes delay transport to the interior. Even if the undertaking of thes work of dementing could be considered as one rightly to be borne by the part, the Harbour Commissioners could not see their way to extertain it in view of the heavy out, and the rectainty that the revenue derived therefrom would not meet the expenditure, but since the need for improving suitable ports is a national one is it a submitted that the cost of such improvements should be a State charge. If the interpretation of the Commissioners' views set out in the baginning of this Memorandism be correct the argument for State accorditure here would seem to be of great weight, and we would submit that if the maintenance dredging on this work prove considerable at also should be a State charge

(3) The provision of deep-water quays with cranage thereon.—As to this work we would desire to point out that the existing resources of the port are quite insufficient to carry it out, and that even if revenue were supplemented by the imposition of dues on goods entering and leaving the port, at would be years before the port would be in a position to undertake such heavy expenditure. The most that could be hoped for would be a limited and gradual provision of such quays whereas their provising Immediately would seem to be of far greater national importance than if undertaken at a later date when shipping was more abundant and the need for its speedy utilization less necessary. As to this conenditure, therefore, we would also urge our claim for a State grant.

APPENDIX No. 18.

MURRORANDUM transmitted by the Waterford Chamber of Commerce on the development of the Port of Waterford, as supplementary to the critience, on its behalf, given by Mr. Frank Phelon, on

15th Sept., 1918 In compliance with the request of the Committee on Island Transport soking for a Memorandem from the Waterford Chamber of Commerce showing the necessity for the development of the port from the local point of view, the Directors of this Chember wish to say that, in their opinion, one of the first considerations Final is not empoyed of the arising her below Duncannon and the dispersing of the frice on Cheshpoline and the Quarter Channell. If these works were carried out, modern essuares drawing 15 fast of water could come up to Wasterdor's at all states of the tide. Cases have already occurred when teamers charving over 23/34 feet of water, whose congrues of grins had been destrined for Wasterleef for distribution, had to be divorted to massian; part owing to their time of arrival being at neap tides. Several of the cross channels steamers have to wait on shell inward and outward journeys owing to insufficient water to cross the shoals

mentioned at low water. Another improvement that is urgently required in deep-water quays. As at present nearly all steamer and vessels have to discharge and take in eargies at floating pontoons 80 feet from the quay-edge, which naturally easies delay is discharging and loading these eargues, as the goods have to be wheeled on hand-trucks or carried from the quay on to the posttone and then loaded into the steamers. Whereas if deprometer quays existed stements could come absquiet the quay and disobarge their causes sirred on to the quays and the stements could come absquiet the quay and disobarge their causes sirred on to the quay and the name would apply to leading. The great saving in time of leading and discharging would, of course, give quicker despeaks, and consequently more than likely help to reduce the frequent charged on good. coming to this port, as quick despatch of steamers after the war will be of vital importance owing to the coming to dis gove, at the control of the great saving of time that would be effected if deep rance great reduction in tomage, in support of the great saving of time that would be effected if deep rance quays existed we might point out that about my reare age the Waterford Harborz Commissioners built a forecomment jetst phora tool fore long at one of the berton where the Olythe Salipring Community attenues. discharge, which enables these steamers to discharge and take in their cargoes direct from this jetty and goods can be brought right alongside the steamers from the quay. Goods are consequently able to be handled as a considerable saving of time as compared with discharging or loading from the postsons.

lambet is a consolitable away of these as emerged with descharging or intering from the produces, successfully successfully as the first of the produces of th The large quantities of periods leaving tento to to grave an interest on anguson, wrong have often been proved by the large quantities of periods he traffs that poses through the post of Wasterford. All this goes to show that if the existing obstructions of the large, on, were removed, with the adultion of deep-water quays, the property of Wasterford commercially would be greatly advanced.

Our President was present during the evidence given by representatives from Carriel-on-Smir and Clonned with regard to improvements on the viver to those places, and this Chamber during to suppore the claims put forward as to the improvements suggested. Those, if carried out, should be of great help in statistics by the continues to the information suggests to make it correct one about the continues to the information and the continues to the continues the continues the continues the great order to the continues to the continues the continues to he used for small vessels would receive our strong support as being of great commercial value to Waterford, and would undoubtedly mean much to the town of Carriel, while by canalization of the river between the town and Clonnel much traffic might be carried without calling on the railway between these towns or

The Grand Carel running from Duhlin to New Ross where is merges into the entflow of the Barrow and, later, at Checkpoint, into the Suir, brings Waterford into direct touch with fallend towns, and stees should, in our epition, he taken to make it the important waterway it would appear meant to be -but which unfortunately we know it is not—by heing energetically worked, cleaned out where enquired, and equipped with an efficient corrier of motor and other barges. Not only would it relieve the railways and be availed of for merchandise much more easily handled on bosts, but it would allow of many developments in inland

(Nouz.—The foregoing Memorandum was received at the Sub-Committee's office on 8th October, 1918.)

APPENDIX No. 14.

REFORT by Mr. C S. Melk, M.Inst.C.E., on Queenstown Harbour handed in by Mr. James Price, Harbour Engineer, Cork, during his examination on 14th September, 1918. 16, Victoria Street, Westerinster, S.W.

tugs or warps.

To the Cock Harbour Commissioners.

QUEENSTOWN HARBOUR.

In accordance with instructions received from your Engineer; Mr. James Price, on 9th October, and confirmed at an interview with him here on 22nd October lost, that I should examine and report upon the state of the Harbour entrance and anoborage with reference to the suitability for the reception of very large steamers, I visited Queenstown on 12th and 15th instant.

I proceeded to Cork on the evening of the 11th instant in the direct best from Fishguard, and entered Queenstown Harbour by the cost channel at 8 a.m. on the 12th inst., on the S.S. "Insisterra." On my arrival at Queenstown the tide was at about half-sisk, and there was a heavy swell coming in

from the south west, it avidently being the result of the gale which, I understand, prevailed off the coast on the previou Sunday and following days.

On the Sunday I understand the "Magnetania" did not enter the harbour, and that it was not possible. to put the mails on board her in the readstead outside Roche's Point.

I may mantion that I have on several previous occasions externed Queenstown Harbour in steamors, and more particularly in the larger mail steamors, such as the "Maiestle" and the "Lucanius," so that I can

The "Innisarra" when entaring the peri on the morning of the 12th instant was followed in by the 8.8. "Lucceus," which same to suchor and took in made at the lower anchorage. Subsequently I saw this vessel leave Queentown as a slock indicate-her before low water. As the Subsequently I saw this vessel leave Queentown as a shock haldest-her before low water. As the tide was on the elsh she was lying at anchor with her head upstream. After heaving her snohor she awang round through a half drels in greatfoally her own length without any assistance whatever for

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The "Laconia" has a length of 600 feet on the water line, a beam of 70 feet, and at the time of leaving Operatown was drawing 29 feet aft. For a yound so easily handled as the "Loomia" the width of the auchorage is more than sufferent, in

jact this ressel could easily have turned in an anohorage of a width of 1,200 feet.

For the aske of compensor 1 give the discontense of the "Mauretania," viz :—length 762 feet, bonn. 88 feet, and maximum draft of 36 feet, the length over all being 769 feet; while the "Olyrapie" is 502 feet in length, 92 feet heam, with a maximum draft of 34 feet 8 inches On the maring of the 12th Instant, I proceeded down the harbour in the steam hunch "Laly," in company with Mr. Price and Captain Uniques, R.N. Deputy Harbour Master, and made a thorough mapteties of the anchorage and enturate to the Fert.

The wind at the time was Southwest. Moderate brees, heavy swall coming into the harbour from the Southwest, which decreased as the day progressed. The bught of the waves at 10 a.m. was from 7 to 8 feet over the Turbot Beak. Low Water as about 10 45 by 11 be seen the throtte Beak. Low Water as about 10 45 by 11 by 11 be received to that to shipps were I had a good opportunity of seeing the barkour at deed Low Water under normal conditions.

When on the hands "Lily" I experimented to ascertain the set of the currents, and took soundings

in various places. I also proceeded to seaward of the Harbour Rock and came in through both East and

West channels. On the afternoon of the 12th instant, as you are aware, I strended an informal meeting of the Commissioners at Corb, when I had the advantage of hearing the views of several of the Commissioners

Commensurers as core, with 1 min the sortaining on seasoning the views or services of the Commissionine present as required the question of the larger Comment vessels exacting the Pert. Unborne, I made a freeher commission of the harbour and dook some more current observations, both shows the Black Book and Cocking, and also in the settemes channel below No. 4 Bony. On that merting the wird storm the N.N.W., with a moderate bronze; there was little aveil entering the hardour and as the wind was favourable. a considerable number of gailing ressels left the Pork. It was low water at about 11.30 a.m. On this day there were no vessels in the lower authorage, although a large stoomer (the "Majestic") was expected in the afternoon.

In my coining Queenstown—or to give it its proper mane, Cork Harbour—is one of the heat natural harbours in Great Britain, and I cannot do better then quote a description of the Port as it is given in the

"Irish Coast Pflot," by the Admiralty, viz .-"Cork Harbour, one of the most espacious and secure harbours in the British Islands, is revegable

for shine of large class from the entrance to Passage, a distance of 75 miles, and it contains space enficient for the largest floots to anabor in moderate depths of water, on good holding ground, and is most effectually sheltered against all winds and sees. It is, moreover, easy of scesses, and from its Western prographical position is most valuable as a renderrous both for His Majesty's ships and the immense fleets suggest in commerce that constituting resort here both for shelter and to await orders as to that find identifiation or their lower.

to their final destination on their homeward voyages

I may here mostion that I am familiar with all the larger harbours of the British Islands, and with a number of those on the Continent and in the East, and I can with safety say that there are very low, if any, that are superior to Queenstown in offering accommodation for the very largest class of steamer affect at all states

of the side.

There are two entrances to Quaestatown Herborn, one on the East and the other on the West of the Short nor two entrances. Both these entrances afford casy scores to this Port, as they are should known as the "Harbour Bock." Both these entrances afford casy scores to the Port, as they are cross currents at the entrance, and the speed of the abb title very rurely exceeds 2 knots per heur, so that is as an easy matter for even asiling vessels to make the entrance in almost any weather.

Both entrances are used by selling creat, but scenario usually take the Eastern channel, as it is more direct, and the leading lights are better defined. By keeping within the line of the leading lights it is

impossible for any ship to touch bottom in the roughest weather, unless she draws say more than 36 feet of

The Western channel is desper than the Eastern, the minimum depth being 42 feet at Low Water. The navigation of this channel is not so invounble for large vessels as the Eastern channel, owing to the Turbes Bank, which necessitates vessels rounding a curve of about 2,000 feet radius in order to clear it. The Turbot Bank is situated in the channel, about 300 yards above the Harbur Rot, and extends about half-way across the channel at High Water. The Bank consists of send overlying rock, and has been

formed partly by sand and gravel brought in by the see, and partly by marker the broad down from the giver by the oblit this, and which has actual on the bank owing to an eddy caused by the projection of the

giver by the shit tides, and which has settless on the tent owing to an every sensor system property.

In Pleta Bank, it inconsisting shows it is a great section by dividingly says by assist and general, and a great improvement would thus be readed in the sensition to the latter than the control of the state of the be obtained by simply removing the sand overlying it

It is not possible to say with certainty, if once this Bank is removed, whether it would make up again or not. I should say that probably it will do sounless the Ram Point Benk were also removed, and whether this can be done depends upon the nature of the material of which it is composed. When the weather

permits steps are to be taken to scortam this. If gillation does again take place after the removal of the Turbot Bank the secretion will be gradual, and a hale divelging occasionally would remove the deposit, so that it would not interfere with ressets using the new channel.

I have shown on the accompanying chart, Plan No. 2545, the Western channel after the improvements now suggested are curred out, and it will be seen that it gives a very favorable approach to the harbour and one which the largest steamers could make use of without the riighest approaches one fear of touching

the ground. I would point out that where the two curves in the channel cour, the first is outside the Harbour Book, where there is ample our room for steament to pick up the proposed line of leading lights, and then cond is above the Europear Rock, where there is ample width of desp water, so that a large vessel would have planty of room to change its course without the least fear of grounding.

After the New Western channel were formed it would be necessary to erect a new line of leading lights and also to got down an additional light husy to mark the western boundary of the Harbour Book, and to move the Turbot Bank Buoy to the westward

The improved channel would compare very favourably with the channels up to both Liverpool and Southematon, and for your information I submit with this Report two charts, numbered 2546 and 2547

respectively, with the channels to these Poets shown thereon I may remark that the minorum double at Queenstown at Low Water will be 42 feet in the Western

channel, white at Liverpool it varies from 31 to 35 feet, and Southampton Channel 35 feet, also at Low Water. I consider the approach into Queenstown Harbour, by either the Eastern or Western channel, superior to the entrance at Livernool, as it is more sheltered from heavy gales; whilst as regards South

ampton, there can be no doubt that the channels to Queenstown are much casier to mavigate than that leading from the Selent round Calsbott Castle up to Southampton Docks. A glance at the chart will at once make this apparent. Of the two Operatown channels, that to the cast of the Rock is the best for vessels up to say 750 feet

in length and 35 fest draft; for vessels exceeding these dimensions, especially as regards draught, I think the Western shannel would be the more suitable. A great deal, of course, would depend upon the state of the weather. With a practically calm sea the Eastern channel would be quite safe for ships up to 900 feet length and drawing even 57 feet of water; with a basy swell from the south-west it would be asfer for vessels of large size to enter by the Western channel, which they could do without difficulty when it is improved.

The lower anchorage, now used by the Atlantic steamers calling for mails and passengers, is situated below Sykke Island, and in well defined by thooys and lights. It is 4,000 feet in length, North and South, and warnes in with from 2,000 to 1,900 feet, with a depth varying from 36 to 60 feet at Low Water of

In one place mear the upper and there is a result shoal, probably of rost, which has only 35 fast of water over it is at Low Water. Having regard to the increase in draught of large result is an of opinion that it would be desirable to remove say 3 fee from the surface of this shoal as soon as possible.

The width of this deep water ambroage is about the same as that in the Mercey, opposite the Prince's

Landing Stage, and is amply sufficient for the largest vessels now afoat, provided they have steam power to readiness when at anchor A vessel 800 feet long and drawing 36 feet could anchor and turn without difficulty at Dead Low Water in this anchorage, provided she has twin or triple strews, and has ample power at command to go ahead or

astern as reconfred I have already given an instance of a steam vessel of a length of 600 feet turning at this place penetically in her own integht, a not unusal operation even with a serong tide running penetically in the own integht, a not unusal operation even with a serong tide running. A westel of the large dimensions could also awing with the tide of her another at Dead Low Water without steam up provided the fight used divergetion where he dropped anchor to height with. I understand,

however, that all large vosels coming to this anthorage always have steam power available, and do not remain at anchor for more than 4 or 5 boors at a time. With a view, however, to meeting all possible continuousies, such as the inability of a steamer to go astern when turning to leave harhour or when swinging to the tide, I should recommend that the width

of the anchorage be increased so as to give a clear width of 2,600 feet, or say half-nonile, with a demin of 38 fact at Low Water for a length of about 4,500 feet. This improvement would enable a vessel of a length of 900 feet on the water line to swing with the tide

apart altogether from any societance from her propellers. I would also suggest that institutes be fixed for the purpose of enabling ver-cis to drop their anchom in the centre of the archomage area, and so avoid any risk of touching ground when awinging at

I understand from Mr. Price that he has increased the anchorage area by dyadeing on the west side of as to give an additional width with the full depth of 36 feet below Low Water.

He has, I understand, she attempted some dredging on the eastern side of the anchorage, but the material stere is so fine that the dredging made little or no imprecion upon it, as it appears to have silted up again as som as the diedger stopped working. Under these circumstances he did not somitime the work.

I agree with Mr. Price that it would not be of much use continuing the dredging at this place, unless

there was a reasonable chance of the increased dop't being maintained after the dredging was certical eat.

As a result of my importion of the barbour, together with the current chaervations made by myself on the 18th instant and subsequently by Mr. Price, I am of opinion that an increased area of deep water could be maintained at the anchorage if the volume of water flowing through it were increased. At present a considerable amount of the shb tale which comes down through the Eastern channel to the

such of Orkhog finds for my down the harboar through the gut bying hetworn. Gurbhy and the Black Rock.
If this volume of water were divoted to as to five down through the anthrough I think this increased sestional zero cleaned by dredging might be maintained permanently. This could be effected, first, by filling up part of the gut to the sait and of the Black Rock by means of gravel or other hard material wheth up part of the gut on the ears note or too pinter neces by means or graves or as at present being designed in the upper reaches of Cork Hard our, and, sociolly, by forming a groups on the top of thes deposit so as to make a solid hank between Corkbog and the Block Rock heaten. This would have the effect of directing all the water, both on the shi and Bood, from the gut on the sast of the Black Book to the area lying to the westward of the benom or into the main obsanel through the lower

I understand from Mr. Price that there would be no difficulty in securing the necessary gravel and dumping it in this get so as to fill it up to Low Water. The groyne or wall on the top of the could be formed either of rubble stone or of concrete blocks so as to raise the level to that of about

The material to be dredged on the east aids of the anchorage could be dealt with either by the dredger "Lough Mahon" or, better still, by a sand pump fitted to one of the large hoppers as Mr. Price has,

I understand, already suggested to you. Should it be found that this groyne between Corkbeg and the Black Rock has not the desired effect in preventing siltation in the increased anchorage area, then the groyne in question could be extended to the westward of the Black Rock to as to further concentrate the shb tide on the anchorage. This

extension is shown on the shart in dotted red lines. d made digitised by the University of Southampton Library Digitisation Unit I do not think filling up the gap as the lack of the Black Bock, as prevently suggested, would have any deleterious effect on the harborn, as it does not mean the abstraction of any water therefrom , on the contextry, it would be merity directed from one place where it is of no penatical sus to the surborage, when might be of great odvantage in maintaining the dopab.

I have prepared estimates of what I think it would east to improve the Western entrance channel. by removing the Turbet Bank, and also for improving the anthonogo. These are submitted as appendices hereto.

In conclusion I bug to express my thanks to Mr. Price and Captain Usborne for their kindly assistance at the time of my inspection, and also for the information they were good enough to supply me with, and which has been of benefit to me in the meparation of this Report. I am, Gentlemen,

Your obedient Servant, 16, Victoria Street, Westminster, S.W., C. S. Merk, M.LC.E.

APPENDIX No. 15.

EXTRACT of the Evidence given on 13th Pebruary, 1915, by Mr. Jan H. Compbell, J.P., Town Clark of Queenstown, before the Queenstown Hurbour Committee, handed in by Mr. Campbell during his Examination on 14th September, 1918. OUEENSTOWN HARBOUR COMMITTRE-MINUTES OF EVIDENCE 1976 FRERUARY, 1915.

Mr. JAMES H. CAMPURL, J.P., called and examined

1348. (Chairman.) You are the Town Clork of Queenstown. How long have you occupied that post ? -Going on for 20 years. 1849. From the airst you have taken a prominent position in repard to this question of the Conventorm

mails !- I have taken a very deep interest in it. 1350. You were the Organiser and Searchary of the All-Ireland Meeting, which was held in Doblin

1350. You were the Organisor and Secretary of the Astrophysical Assecting, which was asset in Desgin in 1910 to protest against the action of the Courard Company 1—Tee, i was 1851. Throughout the notes you have kindly given to us, i see you agent corrust since of the powerful influences which were as work to have Quesatown absoluted. I want you to tell me what those powerful influences were, because we have not yet come across them in our inquiry !-When I say "powerful influences," I mean powerful influences according to my opinion. It was an open secret as the time the made were going by Occasiown that influence were at work to have the mult delivered at Fishgand.

1352. Whose influences were those !—I would naturally assume it would be to the interest of the Great Western of England Railway to have the mails carried that way and landed at Fakgrord, se assired

bding landed at Quoustown, because they would have an shadule monopoly then of the sarriage of the mails and possengers from Fishgaard. 1363. Is there any evidence of the influences being extract!—I have no direct present knowledge of that except the prevailing opinion in Queenstown shapping circles to that effect, and amongst those who

1354. You understand this whole difficulty has arisen out of the action of the Canard and White Star Companies. Is there may remain to suppose that the Great Western Enilway, or Fingerard, or any other influence of that kind, would have may effect on those two great shipping companies —I do not assert that is had anything to do with the desire of the White Star Company to give Questesdown the go by, but I am certainly of opinion that the Cunard Company were in collaboration, if I may so put it, with the Great Western Railway Company towards that end. I may be m error in saying what I am saying pow, but I western Hallway Company towards tasts each. I may so us error in saying with 1 am saying now, but 1 understand, at least I was led to believe, there were directors of the Consid Company who were also directors of the Great Western, and that it would be to their multial interest to have the malls landed at Fishguard.

1850. But you cannot give us any evidence of any kind of such influences having been brought to bear, and as you see from the evidence sirendy given, so far as we know the constitut of the call at Queenslown was due entirely to the action of the two companies on business creemes as much as anything else ?-I carmot agree with you on that, because I know that hefore the question of sawthing in the way of risk was not forward by the Conned Company as a plea for their not coming into Queenstown,

his align were going to Fithgrand, and gave Queenstown the go-by on the eastern route.

1836. You have made a study of the operation of the present system over a period of 11 months?

1337. And you say that it was promised that there should be compensation for the consists of the mill at Questioner by the scribler delivery of the media in New York. You say that was a premise it You've to the Postmater-Centeral.

1368. And was the result of your engitives to show that the promise was not fulfilled t—Thus is so.

1358. For have given us a very interesting table here which gives the arrivals, or rather the time of delivery of the made in New York. I suppose we may take it that is correct !—It is absolutely correct; I have the originals here from the New York Post Office if you degree to see them. 1860. Then you say that those times of delivery are later than they were hefore !- Not later ; they

were delivered at practically the same time. 1361. Then the point is that there is no improvement-no earlier date of delivery !- There is certainly no improvement as regards the distribution of the letters in New York, and there is a decided less at our side, thus is on the British aids, measured as the letters have now to be posted on the Friday afternoon as while the mails were being seat from Easton sie Holyhood and Queenstown it was possible to post letters in London up to it o'clock on the Saturday, and, in fact, it used to be up to 4 o'clock at Eusten Station with an extra stamp. From the various populous centres throughout the country it was also possible to post or Saturday forenous, and such places as Ginagow could past in the foreneous on Saturday. And for Ireland, taking Belfus, which is an exceedingly important centre of industry with a large trade connection with the

0.178 d made digitised by the University of Southampton Library Digitisation Unit Start, in a specified by the Quantum cut the law years for a least, it and by the Cutterform of the Starthy worship posted by the city of the cutterful of floridity. Now show these were excessed on the production of the contract of the co

Take a State by moder the latest arrangement the mails can now be record, without a special data up to 7 a.m. on State by modern gain Landon, and with an extra fee of 1d. up to 7.30 a.m., so this would know of a certain amount of 1th lange dolly which you say but been inserred 1—1 do not as owhere the advances comes in from the business standards; there is an extension of lower by what you say, but 8 is no concession to leaviness next, because what business must file in the office on Skaterdy morning at 7 doller 1.

1963. You are now adversing the claims of the merchants in Lendton, are you not? You are saying it is the business people in London who are suffering by the non-completion of this promise?—That is just one that of the overtice.

1984. We will deal wish that first. Is is not rather strange, if this great grievance exists among the brainess community of London, that no one has come forward to their git is blore in a "finite we not rather gather from that that no disadvancege is left!—I am not responsible for the arrangement of witnesses or

the bringing of witnesses here.

1365. No, kair your expresses to us very strongly that very grave inconvenience is caused to the humans community in London. To that I say, if this grave inconvenience was consed, strely we should have had some representation of it-surely everybody would have been up to arms at once !-- I venture to suggest that the thing is not generally known and that may account for it. I may say I read some time ago, very that the thing is not generally imoves and that may account for R. I may any I rest own time ago, very aboutly after the Petromater-General the dominated are instituted as I have general multi emburded ablagather as Liverpool, on article in the "Burningham Pool," which pointed out that the new arrangement was bound to comal great incremelation grow the burness economistry of London, beaust in and that Friting was an exceedingly lamy day aircust, it was the day for posting latters the India, and interes which were delivered in Linnate on the Shinacky amounting conduct as Subshappes, and Flymouth could not postely be replied to under the new arrangement, and therefore it was bound to be most inconvenient to London regions to most the new arrangement, an increases we are should not seen accordance to head of the merchants. I can prove that to descentitudes in a few simple words. It is clear that any lotters introduct to be east by the Omnacil Line must be possed within business boars, and therefore I am obliged to other (contributationing what your Loresting has said) to the intern I have submissfulled to you in regularment, that is, that softers intended to be sent by the Omnacil Steamer must be posted on the Probey tright. New I have before no there a fecture obtained from the General Pest Office, London, abstract the dates and boars. of distribution in the City of London of louters received from America by the steamers of three lines, the American Line—the line which flow the American flag and which brings an engracous mail, these being submissions atomics—the atomics of the White Star Line, the "Olympo," "Oceanie," and vessels of that unberiond steamers—the steamers of the Waste Star Line, the "Offsipon," "Overally, and visite of the class, and also the steamers of the Hamburg-America Line, the "Imported," and others. This Settern is for the months of March, Agril, May, and June, four meeths, a sufficiently long period to test what I so sing to refer to. If you will look at his Recurs, it shows that 22 mails were different in London on the 15 Saturdays included in the perced from 7th March to 13th June, 1914, showing that debulbs mails were delivered on 7 out of 15 Saturdays, and yet the extraordinary foot remans that, owing to the abandonary of the call at Queentown, it was impossible to send a reply from London for four days from the date of the runfied of such a visa amount of correspondence. This is absolutely incontestable, my Lord. On the other hand, if the mail service from London on Saturday afternoon via Quomatown had been continued, the replies could have been sent on the day when the American correspondence was received in every metance execut one, as practically all the incoming mails from America were despatched for distribution from the London Post Office at 7.15 a.m. I will not trouble you with all the names of the steamers in the Return, although they are given, but the dates and the hours of the distribution of the mails in London are there, and these incontestably prove the inconvenience the people of London suffer under by the fact of not being in a position to reply to the American correspondence received in Landon on Saturdays until the following Wednesday morning. There is no gesting out of that

Leading to the ray of the second-control of Depleted Indicate preference. On quantities the second-control of Depleted Indicate preference. On quantities the second-control of the second-control of

1386. Our raint on that matter is that we have no evidence whatever that anybody in the City of

1367. When the reasonable requirements of business people are not satetice, inciness people in most countries, and I think, especially in this country, generally make strong representations about it, do they not 1—I would imagine it would be to these interest; I great you thus. But they are not aware of the

failure and do not bother to incurre.

1968. Going back to Iroland, as regards the Irish, mail question, first, what have you got to say as to the second of th reasoners in certainty a great gristance as far as Ireland is concerned. I desire to refrain from cumbering my evidence with too much detail as to Ireland's less in being deprived of the direct mail service with the United States, which it has bud the advantage of for a period of half a century, and which was of special utility to Balfast and its neighbourhood owing to the large export trade from that progressive city to America, the summal value of which I understand on the authority of the United States Censul there is £4,000,000 in textile goods alone.

1369 Considering the great value of this trade, has there been any strong representation from Belfast as to to the measurance t-Yes, at the various meetings we have held in Ireland in connection with it we had in attendance and speaking, the Lord Mayor of Belfass. He spoke to the first resolution and we had she a large manufacturer there, Mr. Lindsay, who I think is Vice Chairman of the Belfast Chamber of Commerce,

1370. Has the Chamber of Commerce of Belfast, which I suppose represents ocuments and industry in Belfast, made any representation dealing with this question 1—They sent those direct representatives to speak at this meeting aboving the increavaments of the new armagements to Belfast.

1371. Individuals scoke, but has the Chamber of Commerce, as a body, protested 1-They have proceeded, and as the result of their protest, I understand the Posterioter-Bennesi arranged some time ago that the "Anchor" steamers, bound from Glosgow, should call at Moville and embark the Friday und there. I might state now, on the authority of a Belfast merchant, that that service does not meet the grievance, become, to use his own weeks, this steamers are slow and three is no advantage. The misle have to be posted by those stoomers on the Friday, and if other letters were posted as Queentown, on the Smalay, they would be delivered in New York bafees the latters posted in Moville by the slown estemers.

That serving has been given to them by reason of the complaint. 1372. The Meville service, you say, does not and weald not satisfy the Belfast people !—No, owing to the fact that the stemanes are slow. The tends of Belfast is secreous, and I find how (this is a statement from Mr. Milley, the American Commit) that the Pert of Belfast resided spitch of all ports in the world in its expects to the United States, so that from that statement it will be evident that there must be a vest

amount of correspondence between Belfast and New York. 1373. Could you give us the time lost from Bellissi to New York !- As regards the facilities for sending

latters to America, Belfast formerly had up to Seturchy evening , Dublin and Cork could post up to Seturchy evening , Dublin and Cork could post up to Seturchy night, and Quarantown as late as Senday morning. This is more all changed. mgas, ano questioners as allo at Scinoly mecting. And is now as casages.

134°, What at ince facilitation—the necessary to pose in Dublin and Bullant on Friday evening and
in Oark and Questioners about 2 p.m. on the Friday, and in the West of Iroland latters must be posted on
the forcement of Friday. This injustice of this arrangement to Iroland the demonstrated by a scaling that
the Omned rank receives a white in the walks of Queenstown on Sinday menungs beating latter for
Kee Yest, posted of bours previously in Questatown, Carl, and the South of Iroland granular

Kee Yest, posted of bours previously in Questatown, Carl, and the South of Iroland granular

1375. As matters now stand, Balfast and London say practically on all fours !- They are as regards the

bours of positing.

1376. So that Bellist is not in a worso position than Londan !— Practically not in that respect.

1377. It want to get to the notual ince of this and the real differences. Have you seen the evidence of Sir Alexander King on page 7 beginning at Question 1913 He makes is clear that the Post Office wants the oall at Queenstown if it can got is. "From the point of view of the Post Office, the call at Queenstown

the call at Queenstown if it can get it. "From the point of view of the Peat Office, the c is decired." You see that the Peat Office wants the call at Queenstown !- I do see that. 1378. You see also that there is no projudice whatever against Quescetown on the part of the Post Office, in fact the Post Office representative says that it gives an advantage !- They admitted the advantage ;

that is right. 1379. And of course he also says it gives a greater advantage to Ireland than it gives to England t-1880 New the whole question is this: The Post Office cannot cut this provice; the Post Office, when

the existing contract was declared off, invited tenders for three courses, of which one was the call as Questistown, and not one single tender was received from any shipping company in this country for any comes which involved the call at Quoenstown. Now what I want to see you as a practical man, is, what is the Post Office to do !- What you refer to deals purely with the White Star contract.

1331. Last declary with the critical gatanaton, which is that the Drott Office.

1341 the declary with the critical gatanaton, which is that the Drott Office has tried to got a control by inviting tenders and casses get one—That is as regards the White Star mid-week mult, it does not after the arising control with the Commed Company which rese until 1927. 1382. The existing contract as regards the call at Queenstown has broken down as you know; that is the cause of all our trouble !- Exactly

the annual of all cost treateds—Exactly
1383. That has selected expendences and the logal solving great to the Poet Office and to the Government is
that the enforcements of the sell at Operations in any possible. This bears on, then is no masses of patting
may be fore office as be stirile to get and has obsolutely finded. What is the Poet Office to de-1-effects
arrowing that quotient, I would have been been shown that me the possible to the tenders manel by the
Poet Office. If you did here so that I could have the form seems that more the operation has without the reprocessing that quotient is a second to the contract that the possible of the contract that the
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1384. I am siraid I cannot tell you what the terms were !--! cannot tell unless I know what they were, and whether they had reference to the speed of the steamers, and things of that kind 1385. I can tell you a little about it from Sir Alexander King's evidence, and that is that the lewest speed was to be at 17 knots, and the highest was 20, but he said that they might substitute occasionally Measurer of 17 knots whenever one of the fest steamers had to be laid up for a short time, so that you see 1386. And as I told you, as a master of fact, no tenders were ever sent in. What are we to do t-I

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1362. They were not noticed from any consequent—If year will clayer mit as their to the Wilkle for Company. Twen that they were also the instituted paid matter, of a small a facility of the contractive of the instituted paid matter, of a small a facility of the contract of the property of the contract of the contract of the property of the contract of the contract

Concentrate: If the second department of the process of the process of the Concentrate find themselves. If 1984 two selects the process of the concentration of the concentration

If allowed the religion to the control of the rotation would be to advantage from the business standpoint. I may add that this business repeated occurs, and the rotation of the repeated occurs, and the rotation of the results of the rotation of the rotat

The Tark is what I cannot one any postular layer of gainting for you of the present measure—I have a bright langer which we can be in furtherms on that is link, which the cholest near pair is most time to during which we have a sent in furtherm or the cholest and the ch

ps counts conscension of Astunctic traffic.

1392. Then you admit that the only peadfule course open to the Post Office is to issue numbers; there is nothing else for it i—That is the usual ocurse.

18%, And if those tectors are out asopped by naybody, nothing butther evanion that the part offer and to—That for experiment of the Michael put that has no benefiting an the other, the more of many that the first potential to be considering the Statedy small. That is a distinct sing allogother.

1801. That can only be governed by the acceptance of tenders at certain terms 1—784, that is right that the or to set upon the considering the Minister at certain terms 1—884, that is right to the considering the Minister at certain terms 1—884, that is right to the considering the Minister at the certain terms 1—884, that is right to the considering the Minister at the certain terms 1—884, that is not considered to the certain terms 1—884, that is not considered to the certain terms 1—884, the

one I think We do and quote construents controlled the I made in 18 and 18 day 8 takes cause we array negot characteristics at a characteristic great with the indirected mail, that is to any, the mail data was embarred as Questionen on the Thursday. What, I take 8, the Committee is more directly concerned with, is not so much the made-veck read is on the Smelay mill, the Current contract mill. That is the question I cance directly to chooses.

1806. If you have not not a cartisis will at Operations that must be included in present some controlled in the controlled of the controlled

1895. If you have got to get a certain oul at Operandown, that must be included in some tender which
must be occupied by come estamblic company — That is quite described.

1896. We have had avaience that the general loss of time in the call at Queenstown occupied from
to to beaux. For any that is not as—I do.

to 60 Saims. 100 say first in odd so'—1 do.

1 want by the start delay averages only 2 hours 57 membes and 10 seconds. I want be shall like by the start delay averages only 2 hours 57 membes and 10 seconds. I want be offered here given of the arrival of the stemmer.

1396. When constitutes the arrival of the stemmer.

1370. With constitution the arran or tas measure—proming nector is home — provided with a standard method whether 37 me it has morning in or the statement all facility froming, or tradepart it was blant that standard good independed, but I take it that may think it that the other good independed, but I take it that may think it that the other part of arrival whose the Countries of the provided in the newspaces, and I take it that it must have been the arrival of the other provincessity of the provincessity and on when the returned countries to the third must have been the arrival of the other provincessity of the provincessity of t

of the pile, and not when the cineme came to catche in the inter placeties. The could be found to be the content, they choosed be provided by the content placeties of the

.1400. That is not what Captum Churles meant at all!-But the ordinary man in the street would take

is an that way 1401. I do not think the Committee read it in that some f-I know it has been frequently stated by peness writing to the Press in connection with the delays at Queenstown, the vecarious delays as they are called, that they averaged from 5 to 7 or 8 hours. I have often had to combat that myself in various ways, positing out that it was utterly fallerious. As regards the delays, the Consul Company appeared to feel prove the loss of time as far as its two hig ships were concounted, than the loss of time of the smaller vessels. Or course, there shine being more expensive to run, the loss of time means a great deal of expense to them. I have nothing to my against the Cunard Company, who try to do the lest they can for their shareholdersthat is what any company would do-tut I wish to add that while it was quite right that they should try to do all they possibly could to aborton the delay at Queenstown, I cannot quite acquir the company of being responsible for making the delay a little longer at Queenstown. An arrangement was entered into with the postal subjective to sceledents the scrival of the Sanday mult. The mails were in the habit of griving about 7.10, and the occoleration, which cost a little more, provided that the nails were to arrive at 6.15 or 5.20. That was a saving of two hours. The result of that was that while that was in operation the calculation I have made above that the actual loss of time by the call at Queenstown, for the period I have set out here, was simply 2 hours and 9 minutes.

1402. You would not be prepared to say that the actual loss as measured by the Company (that is to say, from the time of sisokening speed until the time of making up full speed again) might not be as much and Capturn Charles stated 1—No, that would occasionally happer, but it would not be taken as the average, and that is why I want to give it an sheekete contradiction. It could not be taken as a fair average; it

would be unjust to say it. would be unjust to say it.

""" 1003. You nee not able to tell me that you have taken your times from the moment the lag ship
slatkaned her speed !—I have taken it from the arrival of the slap off the harbour when the Canned
Company officially notify her arrival. I cannot go by anything else, and think that ought to be good If through for or any other reason the captain of a thin was chliped to slacken speed by Ballycotten Light, it would be under to take that as the arrival of the ship at Queenstown. There must be some specific points at which the ship aboutd be threed, and I take the official times of the Cumord Company.

1604. When she turns 1—Whon she arrives of the harbour.

1605. When she turns to go in 1—Posithij it may be that, at Boche's Point.

1406. When she anchors and the pilot goes out to her 1-No, I would not say when she archors

1407. This time is an average, whether the ship goes into the hurbour or not !-- I have taken the arrivals covering the period of nearly five months

1408. Those include times when the tender went out and handed over the mula, and other times when the skip went into the harbour !- Everthing included; I did not separate them at all. I took them in estagerical order, and compared them with the date of sailing, as given by the Conard Company, and I found, on a measurement of you, asset 2 source and 2 minutes was the period while and consisting derived well remining.

Taking three separate sets of millings covering nine months and comparing them, and taking an everage, I found that the actual time of delay was 2 hours 51 minutes and 40 seconds.

1409. The White Star liner going from Southampton to Charbourg has to go out of her course? -Ahnolately 1410. Therefore she would lose more time. You are dealing only with the Cunarders 1-Yes. The same thing would apply to the White Star; they would be timed from the acrival at Ecche's Point or off

1411. You speak in your note of the assumption that the hig Cunarders were timed to have Liverpool

bound to be as their worst. I do not quite know what that means; the leg Cararders leave, as you know, at 2.90, or any tross after that up to 5, when the tide suits at Liverpool 1—They are substituted to leave the ling stage at 2.30. 1412. And if the tide does not serve at 2.30 they may leave up to 5. That is the point !- That is on. I understand (this is a subject for these who have better mantical knewledge than I have, and I do not progume to have any) that in good weather the "Mauretanis" and "Lesitanis" do not cross the har until

about two hours of flood, and in had weather, naturally, with the kift and fall of the see, it would be unsafe to venture across the har later than an hour or an hour and a half after the top of high water, or hefore 1413. They got off at 2.30, or as soon after as the tide permits them; that is it, is it not !- That often means that although the steemer would leave the landing stage at 2.30 abe would not get across the

1414. Procisely 5-Therefore at its an illustron to imagine that the scheduled hour is adhered to in

1415. She gets over the har as soon as the tide serves !-- Yes.

1416. There can be no question about her timing herself so as to reach Queenstown at the moment of the want conditions; she goes straight on to Queenstown, and takes Queenstown as she finds it 1-The observations I made were based on the evidence given by some of the gentlemen who were examined in commettion with the accommodation at Queentown, and I noticed that some of the evidance specially referred to the condition and the depth of water at low tide. The reason I make that allower in my evidence is this: it must not be assumed that those ships would always arrive at low water. There are five chances out of six and, of course, I am not presumptions cough to set my opinion against theirs) I could not belp being struck by the feet that all the evidence against Queenstown sounced to be hased on the assumption that those ships had to enter Queenstown at low water, and therefore the depth of water in the channel entrance,

and the depth of water in the awinging accommodation, would not be sufficient for those ships at low water 1417. I do not think that presented itself to the minds of the Committee in the slightest degree, all we felt was that conditions might arise in which those ships would have to enter under the worst conditions, and we have to consider, in theiring of the safety of the hardon, what is to desire unser use outder consideration and we have to consider, in theiring of the safety of the hardon, what is to kappen to these tags slope under the worst possible conditions. Bas we never shought for a monest shut it was a question of being always going in made had conditions. They colly mater, as we shrow, when it is pretty rough contains t—I would like to say that judging by the evidence, and by my knowledge of what the depth of water there is, I think the statement made by one of the witnesses examined at the last sitting here, Admiral Tuke, second to be very exceptly in favour of Queenstown, inamuch as, if I read the evidence correctly, he stated that very large naval ships were navigated into Devenport with only six inches under them, whereas

action there exy sarge mixes have the state of the state to induce the Postmaster-General to consent to abundon the call at the Irish port,

to motive our revenance revenues or countries of contribution and the Pedemaster General is advised that under the learns of the control the same despress it, it is not a question of his consent, but of his powers Do you understand that b—That is as regards the control, as it?

1430. Certainly; that is a very important point. As far as we know the Postmaster-General had no option — Dealing with their master, the reason i make special reference to it is that I find that the Cumri Company only in recent times, in the last 12 months or so, have refused to enter Queenstown to carry cut his conditions of their centract owing to the statement put forward by them that there was not sufficient water, but I hold that that was not always their ground of complaint for not entering Queenstown, because on March :4th, 1913, the "Mauretama" did not enter Quantstown to embark the malls, and i Desirate off Macron rate, 1913, the "Macronama: on now cater spacements to constitute the man, and a fish it my day," owing to my official position in Operatorous, and the first that I had given this question some consideration, to bring the matter under the notice of Mr. Muldoon, the Merober of Parlitment for the Quiencavous Division. He occumumoused with Mr. Sammal, and Mr. Rammal, in his rupty, dated 26th April, 1912, and "He had been in communication with the Curaci Company on the subject-matter of my " letter, and that the commander of the 'Mauretania' had reported as follows " (these are the words): "steer, and that the communities of the "Manuttank! And reported as follows" (these are the weak), "vasin that the blobber" on the blobber and the blobber and

substitute Certain, would be avery considerable to the Darrights a big delip in 1—1 do be the commander of the camping a big delip in 1—1 do be the commander of the camping a big delip in 1—1 do be the the commander of the camping a big delip in 1—1 do be the commander of the camping being the fact of the figs as the reason for his most genig in: He grew an additional reason overing to the difficulty in getting cold. I venture to any that if as that terms the commander of that obscure, the "Mastretani," have there was a this in catering with that ship owing to the depth of water, he would have put it forward as a reason. We never heard of it ar the time, and if you will follow on you will find that it was not mentioned by the company until 1913. 1423. The commander is deading with this particular occuron, and on that particular consists there might have been an immense depth of water in the channel 1—That immense depth of water could not

continue, because he refers to the darger of the delay. If there was delay there was also danger of less values by a long to any long to an energy or as usay. It toget was usay know was rask to again or an was water by a falling tode and, therefore, I again emphasion the fact that it there was rask to be incurred owing to the look of sufficient water, and he felt that risk was there, he certainly would have put at forward as one of the reasons for not entering when he pur forward something more than the more risk of for-1428. The risk did not arise on that particular occasion; he meant to convey the additional reason.

I suppose, that if he kept waiting about for a sufficient time he might find himself abort of coal !- In the mentitue the tide would have been altering, although the fog might not have been billing

1426. I want to make it quite clear to you how the question stands, and it is a purely legal question. The Post Office counts by you make it gots a tender which would receive you may be supported to be a country to be the country to be considered and the point I should like to urge or your brighting and on the Committee, in this, that the Continuous chosen and the contract of the cont

1425 What I want to impress upon you is that the Postmanter-General did this with extreme reductance; he did not like doing it at all, but he was advised by his responsible legal advisors that he must consist. I want you to get into your mind that the Protessater descend did not like it any better than you did, and would have objected to it if he could. When you are teld by your lawyer that you must not do a thine, you as an assateur, generally agree not to do that thing and you are who in that doctation. You see that I - lee that, my lord, but just one more word about that before we leave it. The reason I would like to say that I still cannot quite agree with the Postmater-General for altering the contract is this, that the conditions at the time he altered the contract were identically the same as obtained for 5 years previously when those ships were entering the iriner harbour, and I was on board those two ing shops myself on more than one occasion when they entered the harbour under exactly the same conditions as existed whou the Postmaster-General annulled the contract.

1436 That is quite undoubted; on the other hand the law is a very curious thing, and we can only accept interpretations of the law from logal experts I should be very sorry to interfere with their decisions !- They are not always right, though, 1427. I quite agree. With regard to the passinger traffe, you my it is to be very seriously affected

because the American tourists will see go to frelind if they council emback on Sundays at Quearatown, Have you any evidence that there is any falling off in passenger traffic owing to this stopping of the cell? -In this way, that I know how it has affected Quantatown and the hotel keepers there, and I know how it has affected the hotel keepers at Killarney and Gongariff, and all the south-western area. There are some beauty spots in the country where the Great Southern and Western Raffway have invested a large amount of money in putting up excellent hotels. I know they have practically jest all their American

14:28. When you say you know, have you any figures to show that there has been a great falling off in this traffic 1—1 have no figures available fust now, but at is coldly from the bottle-fleepers I have had it is from the immages of the Victoria Hotel as Köllbyrney, Mr. Mater Langhama. They blink they have lost their American tradic altogether.

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and that they had not appelling at all "the the number of American de Joseph Servery." The grant of higher infinited in the result in the "Monerous" of "Lindman" or sulfiger all quantum size. In Pails, within I had a good dust not be such the argundation of by Mr. Osador, who was reported as a position of the pails of the pail of the pails of the pail of the pails of the pail of the pail of the pails of the pails of the pail of the pails of the pail of the pail

1450. And outship could quite the bloom which you my low currently county the regular celling at (summarized extension of note than 220 of 30 of 100 of 100

1431. You admit you have a very fine service from Queezatewn, hat it does not take the mails now and it does not deal with this tourist trails which you speak of 1—Not the better class.

1432. And nothing would most that fourist tentile but the return of the engular calling of the very fast stansors 1—1 would not say nothing would do it.

1433. Why do they not go in the other stemmers 1—1 most the better to-de American people do not tervet, in my optime, by the slower ships, they prefer to go by the fast cone. Whether it is that they retitle the following purply all follows a fall for its abstract, our that they meet a more substraction of society. I

do not know, him the fact remains, and in generally similated, that the before time people meanify travel by the first-class thips and the juster mell steamore.

1433. And that class can collect by the brought hank to Ireland by the scopping of these very fast steamers at Queenstown 1—1 about any so.

1438. Ldf. Serious You and in your evidence that you thought the Directors of the Ounced Common

were in some way interested in the Great Wentern Ballway !—That was a more matter of opinion on appart, that I had reason to behave it from visions hints I recovered, it occured to be common knowledge among the people of Queenstown interested in adapting failure.

1.456. As a matter of fair the "Manutestine" and "Landsman" all at Philograph and "Landsman" and "Lan

£436. As a matter of fact the "Maurotania "and "Lusitania" call at Fahguard always t—They do or the cost-bound passage only.
1437. Not on the west-bound 1—No, they go direct.

1448. Now us to the process forms traffic, or passinger traffic, as I may call it, to and from Queenstorm, if you look at Queenstorm (Received and the Book's ordering, I should have if the resulter becaute would call a Queenstorm in fatters, and his narraw was that "They do now; they are not governed by the contents all, they simply "all as a matter of hourises." Then if you look at Queenstor 488———They are not calling as all

To all says a source of houses." Then if you look yet any governor my an decrease in all, they amply to all says as source of houses on all, they amply to book as Queenter 488————They are not calling at all you look as the same of the says and the same of the says are sourced to the says the house being requisitioned 1—Yes; I only want to make this class.

MAD. This master was given in Jan, below the serv bries and. If you look at M. Sudamond and the services is dominated to the price of Jan Belle and the services in General and the services in General and the price of Jan Belle and the services in General and the service in the services in the services and the services and the service in the services and the service which is serviced in service in Table 1 these to be that the service when the se

tending by the smaller and devery basis, and they also produced revisions always firm the visions that would have smaller asked always under word by the more experience basis—That may be, but a very region runder of those are second calcin passengers; I know those steemers basis—That may be, but a very region runder of those are second-calcin passengers at Quantizons. When I may that, I want to make it deet this thy have also considerable assembled from the contract that a commodation for free data passengers, and a reasonably good statute of free-basis passengers in the produce of th

and a lot of money travelling by those stormers as by the first stammers.

1442. I quite approximate that there is a contain class you will not get 5—That is so.

1433. They pass by Queenstorm and go on, but that I am afried is inswitchile under the existing condition of things. Is the stocke over late in attending on the linar when the comes in ? Has the liner were to wait for the tender "—What next-lineral vessels are you conferring to?

1344. Any of this have entire in and mentire under the 3th confine-through per sent to some for Ontalled-Congress, extensive, Prot. Sect. Sect.

If Widels office a cours non notes or messors,

14.6. Done that period, the 2 hours and whatever number of minutes you give them, represent the

14.6. Done that period, the 2 hours and whatever number of minutes you give them, represent the

period of the period of the course of th

1447. With the larger ones 1—Ab pre-set the "Mauretania" and "Lustania" "rill do the journey, I should say; in ten hour; they mud to do it in about 3\\(\frac{1}{2}\) but they are getting a bit old, and their speed is, I presence, naturally getting law.

1448. So that if they life at dood tide from Livergool they would room Queenstown at something

within a cought of hours also of flood tody, for not these could remain the hours from full toda to right tides—
Laws not binder on the side table of Queenstown, and I mande my monthly who is would be. The tribe
are different
1469 I house they are 3-As all events you may take it that with the weather and no food found of

1400. Love they are λ -at all events post may have it that with fair results on its no for given a torus that it is experient gones with all old very root again a pool, the "Numerount" and the second of the sec

This is more a matter for a motified portion.

This is more a matter for a motified portion.

This is more a matter for a motified portion.

This is more a matter for a motified portion.

The state of the state of

ministring the quartons about avoiring quaestions—I a simply referred to what was common communitation of the properties give outliness of 14—15 have no evidence of 14 stought that it was common knowledge. I could not only the properties of the Character of the properties of the measure for an energical was that it was shaded that there were Directors of the Character Company at all a measure for mentioned was that it was shaded that there were Directors of the Character Company and a properties of the properties of the Character of the properties of the Character of the Char

14.55. You do not press that as of any importance —It is of no great importance now.
14.55. Could you given you of the number of mail bage which would come purely from Inchest, and how many from the United Kingdoon the United Singdoon of the conference of the new hort I server what the proportion was not I server remember in a the recovery.

was, in it climbs assume in a too memma.

1456. Could you give me the Billist proportion—I know that Billist would be much more considerable than any other part of rehand swing to the much larger values of tends.

1467. Could you give us any side of the processor of the possengers who would wish to go to Brohand.

1467. Could you give us any side of the proposal or of the possengers who would wish to go to Brohand.

1467. Could go give us any side of the proposal or the proposal of the country, and they would not not be go to the possenger without the side provided in the provided in the proposal to the country and they are welforn that they would result any country out in the case of all the Queen would not make to go to Queenstewn at all. We have a welforn that they would result in the provided provided the provided provided to the provided provided the provided provided provided to the provided p

when not wish to go to say the darks that by any return, because some of the above passages are old at Queene.

It is not not not say the darks that by any return, because some of the above passages revealed land as
property of the same of the sa

great centre in the country about this nature. It is really an Iruh quarter we have no complaints from any other great centre in the country about this nature. It is really an Iruh quaston, is it not 1-4 would not any that as all; I differ from this opinion altograther. I say it is a matter for the industrial and commercial fluctuation of the art British [ost in will.]

A Why Six Belgroot are ferred and complain!—They is a matter I have no control over, I cannot say but the for resuring robust the exhibit generatement in unperationably a disadvantage to the commercial interests of Great Bertain.

[460. I should have thought if they had had any great gelvence takey would have come ferround!—I believe the Gisagov Chamber of Greatment disk without at the time the matter was under disasseon in Patients as to the dranger of all all quantities, or serious, protest against the change at long gleanous part of the Greatment as to the dranger of all all quantities, or serious, protest against the change as long internal as

moni se to the change of call at Queenanders, or assessment business interests of Ginegow and Southern.

The witness withdraw.

APPENDIX No. 16.

REPORT of Sir John Houstains, C.E., on the copabilities of Valurius Harburr as a Station for Transatlantic
Pastett, banded in by Mr. Robert Fritzgerald, agent to the Knight of Kerry, during his examination
on 10th Sectionher. 1918

33, Great George Street, Westminster.

To the Directors of the Killsmey and Valentia Railway.

GENTLERS,

In compliance with the request to visit and inspect the harboar of Valentia, and to raport my opinion.

on the times for a Harbour of Relign, and its expalitions for a Nachas Ration, I proceeded sowaris the real of May last to Volkenia, assumptand by Me. Barry, the Reigness to your properlie Bellaway, and made when there a personal examination of the barbour and its approaches. On the way to Valentia we examined the proposed toward the Killenian and Volkenia Relignary. However, when the second terms are a Lagh Penia, and a personal results of the Relignary and Volkenia Relignary. However, when the religion is the proposal toward to the Relignary and the Relignary and the Common to Lagh Penia, and a Part be revised below, which if a possing were designed through Doubts Bay, magic but a pipe-scaled through Doubts Bay, and Designal habout takes to a search turb approachatign of designing the last to the temporal.

First to receive storic, watch, it is present storic stronger before any maps, or approximate recognibrouler Bay, and torings had be maken to respect in the practicability of deep singuing the fact to the required of the constraining the borings after my zerival, it appeared that the har was undertail by rock, which have been been present that reinh, and have see high a level as to render it, on the series of occusions,

mergedient to seek a deepwater entrance in that direction, though it is questionable if that plan would have been desirable in other respects.

In esemaqueness of the ablandomment of this anceunce is will probably be found more convenient to wake the rollway normates at a Renemal Point.

value the railway terminate at Bereard Point.

The autention both of mutical inem and of sivil origineers has on different occasions, and for a long time
past, been directed to the merits of the Harbour of Valentia, and since my reterm therefrom, I have studied
the charts of this part of the econs, segmantated mynelf with the result of termor inquiries, and compared the
mutical and exquencing epitions that have already been given on the midpet.

nonzenia and enginierum gennome tant novo areasty nose gene on one unique.

The views of those members of up over apartensium to have looked at Valenati, so far as I have been shide to asserting them, upper always to have been flowerable to the oppolitions of this flattow. There were always and the property of the pr

when the railway from Killiamsy to Valentia is completed, it may be reached in sixteen or seventeen bours from London.

It is also the meanest harhour we have to America, Ising distant from Hallifar only 2.145 miles. Its position in those respects, therefore, is most favorantia, and its superireity in gaographical pointion

Its position in these respects, therefore, is most favourable, and its superiority in geographical position would seem to have been admitted when it was selected as the point of departure for the Atlantic Telegraph.

As a final sociate internal searchy is also admitted, being completely hard-looked and abulgered, and though from this droumstance the quality of the helding ground becomes comparatively of less importance, yet, from burnings taken at my request, and from such information as I could procure, it appears to be good in these resures.

some trippers.

The state of the latebour, at low water is upwards of two iboussed access not within the three-fathous like these are live broaded access which despens one to let faithers. In size, therefore, it is quite simple. The presion from any void appear to be well indicated by the Schilger, which are injusted, and which he about eight units to the cond-weak, and by Habitete Datasi, which like about eight on the access which is a size of the cond-weak and by Habitete Datasi, which like a size at the cond-weak and by the cond-weak and who reported on this accessor as both incides, then Communite Wolfer who trapers do not this accessor to the factors to definite Bouster.

In 1845, white thir, if is light were placed upon the Foot, which not about forms with the activation of animal acoustic to 1845, when the foot is approach well in the approach well in this epition be worth in the opinion through it is explained to provide which is explained to the approach well in this explained to the construction. Some nanidal area have deploted that to a militerial relation that the approach well whose employment on the coards survey about make him a good antherdree on their states in the report referred to that "the edge of not intuited fashous acquifings in a well-defined line at a series of the explaint the edge of not intuited fashous acquifings in a well-defined line at a series of the edge of not intuited fashous acquifings in a well-defined line at a series when the edge of not intuited fashous acquifing in a well-defined line at a series when the edge of not intuited fashous acquifing in a well-defined line at a series when the edge of not intuited fashous acquifing in a well-defined line at a series when the edge of not intuited fashous acquifing in a well-defined line at a series when the edge of not intuited fashous acquifined and the edge of not intuited and

warm rescale of being within the line joining the Fore and the great Skillig." This interested of Captain Walfe's I find on examination to be correct.

The objection that appeared to me to require the most curful investigation was that which has been made to the engrances of the harbour, of which there are two—one from the north-wors, the other from the

such west by Port Magne.

The north-west common is the principal one; it is short and dara, but it has been objected to by some nortical authorities, whose opinion though how weight, as being too narrow. Its width as shown fire banded fact within the few failthout Inflored parts within the few failthout Inflored parts within gates, the greenest Hydrographur to the Admiralty, in his criticus before the Trans-almainst Parkets Station Committees in Stati, provided out that addices.

The south-west entrance, although considerably the larger of the two at the mouth, is in its present state, excepting up to near Port Magos ferry-house, too shallow for large steamers, and to fill-adapted for salling vessels.

I observed during my risit when it suppressed to be thereing fresh that the foun from the swere on the harp ground volte, which he because the lighthouse as the next-tower entrones, was overpartness arous it and gave the apparatuse of breakers (the actual extensive of which has been described by some of the mutitad many where the water was much to obe tops to exist of any for reality.

There is, however, much difference of opinion snoring southed substitutes are to the shoulter soday of the extense set is one in. Capitalis World, in his troper the abusely quoted, observed that "shikology in heavy:

the extracte as it now is. Captain Wolfs, in his report already quoted, observes that "slabough in honyr north-worst gloss three will appear from the contails a line of breakers arrect use entrance, yet a wellconfidienced steamer may active be carried through, and a good landing mank may be easily contained, which may be foreignly run upon," and the plittles on the intend short me that they can take a thin phrough

he manage and done is not all because the second se

1. NORTH-WEST ENTRANCE

To hiow away the Gighavalig Recky, which lie on the north side of the northwest coteases, and to every and blast the pointed recks which his under the lighthouse on its senth side, so not to some a minimum depth of trendy-four fore at low water. Sparing sides for a width of dight hourself lots, and to further uncross this entence by descript away the twenty-feet and Sourisen-feet rocks that to between the haphour rock, Perch and Sourisine Sourisen-feet rocks that to between the haphour rock, Perch and Sourisine Solate.

9 Sorrie West Extrance

To dredge the Port Magne Channel to a beaton width of two hundred feet, and to a death of twenty one feet below low water of Spring tides.

The desdging of Pert Magos Channel would have to extend from mear Port Magos former by Roccins and the Roccins of the work, Mr. Barry at my Roccins Mr. De aware myself of the procision flight of this portion of the work, Mr. Barry at my

request has, since my visit to Valentia, had the requisite borings taken, and he reports that the whole of the

material that would have to be dredged consists of mod and sand,

There is no difficulty, therefore, in estimating the cost of that purson with telerable precision: the expense of blacting away the rocks on the north-west entrance is more uncertain I am of onlines, however, that the cost of removing the rocks on the moth west entrance would not exceed 250,000. The requisite dredging of the south-west entrance may be done, I think, for £80,000.

But of these two works the former is, I conseive, the first in importance. For the present, therefore

I should recommend the expenditure to be confined to improving the north-west entrance. If carried on to the extent I have named, and which is indicated on the plan attached to this report, it would, I believe, remove all waith objections to the Harbour of Valentia, and would make it a most valuable harbour of refur-

and packet station. The water inside is so still as to render docks unnecessary. Sufficient quay space for large class earners or vessels to load mails or cargoes at all times of the tide could easily be formed at or mean

The construction of the rellway from Killerney to Valentia presents so muzzual difficulties.

From my examination of the ground at Drung Hill is appeared to use that the milway by a little care

right be carried round the claffs of Deegle Bay at the foot of that bill without the named which had been I am, Gentlemen, Your obedient Servant,

(Stened) JOHN HAWKSHAW

APPENDIX No. 17.

Schodules (A., R. and C.) handed in by Lord Monteagle, Chairman, Foynes Harbour Trustees, during his exemination on 16th September, 1918. SCHEDULE A .- DISTANCES IN DISTRICT SERVED BY FOYNER HARDSON

ate	daya	e			Foynes	Miles from Linerick.	Trales	Villages Staved by Station
Foynes -	-	-	-	-	-	-	-	Loughill, Ballyhahill Glin, Turbert Ballylougited, Newtowasander Shanaroiden
Aslantan					6	90	56	Ballysteen, Pallackeney
Ballingram -						12	24	- myrend rates and
Adage					15	11	59	Killdino, New
Patrickswell-					19	7	63	Clarina, Old Kildimo, Ferrybridge Kilpeacon, Stonehall
Rathkeals -					11	19	68	Ballingarry, Crosgh Knockaderry Clourcogh, Cooksappe, Kilfany Beens Pike
Ardsoh					16	24	46	Curickkurry, Athea
Newcastle Was	5 -				19	87	4.8	Feenagh, Castlernshon Monagon Kileedy, Ashford, Broadford Drumcolliber, Kilmoody Strand Venhanach
Burungh -					25	13	37	Templegiantine, Tempafulla, Cregg Bromtasana, Gleoquien, Krisculler Walshestown
Devon Road					30	36	32	
Abbevirale -					43	41	32 29 25 20	Knorkussenhel, Mt. Cashel, Mt. Coll.
Kilmoma -					37	65	25	Duarh, Knonkanure
Listowel -					42	50	20	
LIEBRY					49	57	13	
Abberdomey					54 57	62	8	Kilfiyan
Ardfest -						65		

Towns and Villagies in Co. Clark that could be supplied from Founds by Boat.

	Town					Miles.		Town						
Place Craths						84	Kitmureas	36	Mah	061-	-			p
are basherda						3	Kılrush						-	18
(maek						10	Kilbaha							80 10
herricholt -						37	Kilmini							10
Cildweark -						4	Kilkee							97
Ballymacally						6								

SCHEDULE B .- FOYNES HARROUS -- IMPOSTS.

	Slag.	Conl.	Ton.	Oil.	Timber.	Sandries	TOTAL
Year	Toss.	Tons.	Tona.	Tens.	Tons.	Tota-	Your.
1890		1,000			750	1,570	7.404
1891	-	5,006	_	_	913		7,493
1592		4,112	-		690	1,970	6,683
1993		6,518	-	-	44		3,617
1894		4,837	-		450	1,100	5,825
1890				to be	450		3,725
1506		3.561		-	490	1,164	5,575
1897		2,552		_	706	1,340	4,797
1898		3,618	128		550	755	5,049
1890		3,301	199		750	704	4,945
190C		9,100	432	_		400	3,477
1901	_	2,531	490		550	320	3,881
1902	_	8,607	670			700	
1903		8,400	578		100	1,184	0,562
1904		2,257	-	4,907	948	634	P,440
1905		7(18)	479	3,415	160	767	8,849
1906		9,965	737	1,312	315	620	
1907	660	3,540	570	8,637	1 75	480	13,889
1998	700	4,617	788	7,407	603	600	14,790
1909	850	5,849	768	7,006	92	740	16,581
1910	690	5,122	452	6,818	311	796	14,165
1911	900	3,915	700	6,788	500	560	13,501
1912	950	4,781	1,040	8,170	100	868	15,830
1913	640	0,008	450	19,010	1,880	901	31,449
1914	350	4,611	-	7,996	8,800	13,346	18,678
1915	684	2,652	418	9,967	751	100	14,719
		1,887		10,817	100	80	11,924
1917		548	talk/	2,879	706	-	9,176
1918		-	_	8,984	2,962	/ -	0,984

SCHEDULE C.—Foyses Harbour Excelpts and Experinture, Excluding Premainer Works, 1380-1918.

Year	Receipts.	Receipts. Expenditure.		Receipts	Expenditure		
	£ 76	£ 65 89 59 176			£		
1890	76	- 06	1904	811	101		
1891	125		1905	200	196		
1892	191		1906	153	245		
1893	97		1907	321	285		
1894	111		1909		626		
1833	85	84	1809		245		
1896	100	199	1910	364	388		
1897	100	137	1921	400	321		
1898	119	138	1918	914	380		
1839	105		1912	37.4 928	450		
1800		100	1804	1,090	630		
1901		166	1915	692	*909		
1902	38	163	1916	553	*160		
1903	141	176	1917	506	P681		
			1911	0.09	-601		
	Totals £1,469	£1,000 Deficit £443		Totals 25,413	\$5,130 Surplu \$350		

APPENDIX No 18

Cory of Report cont to Lord St. David's Committee by the Lomerck Harbour Commissioners relative to

accommodation is the Port and purposed Ballengy connection theoretic, statements on to requirement of Port Lases, Principal and Interest, also, lass of Vessals state entered the Port in the year 1913, transmitted by the Linearith Rationar Commonsceners after evidence had been given by their Secretary, Mr. J. F. Power, on 17th September, 1918.

(a)—REPORT SENT TO LORD ST. DAVIDS COMMITTEE, LINERECK PORT.—PARTICULARS OF ACCOMMODATION

Harbour Commissioners Graving Dock.—423 feet long, 396 feet on bloom, 46 feet 11 linbos wide at extrance, 2 feet 5 notion height of till above the bottom, droph of water on sill, ordinary Suring, 15 feet.

9.82

9.82

There are two workshops owned by private from capable of effective ordinary repairs to hall and machinery. Harbour Commissioners' Wet Dock .- 7; sores; length, south sale, 850 feet, west 465 feet, meth

790 feet : denth on all at hash water ordinary Spring tides, 23 feet, depth on all at hash water ordinary neap tides, 16 feet 6 inches. Crauge -One 6 tone, one 5 tons-worked by hand Superficial Area of the Dock Quays.—Available for new sheds, 7-95 zeros (please see plan berewith).

The above length of quayage shows berths for say, four steamers, carrying, say, 4-5,000 tons of grain each, one can be worked by Meson. Bannatyne & Son's Suction Plant at the rate of, say, 600 to 800 term ners, one can be worked by memora mannagers a some serviced rants on the rate, on, may, were no one one per working day; a second orgo can be discharged by hand and ship's winches by the authorities supplying, see when gray; an execution of the contraction of t these cargoe: direct to rail would also require the supplying by the authorities of some 10 or 15 motor lorries and the railway company to considerably increase their supply of wagons. erected on the west and north side for receiving hagged grain.

There is room for storage by private firms for, say, 25,000 to 30,000 tons of grain catains these firms' ordinary requirements, and there are also the dock sheds, so per plan, sufficient to cope with about

Vessels whose draft may be more than the high water of the day on the still of the dock, can be lightened at Beigh Castle, rome 16 miles below the docks, where they can always by safely affact, for lightenegs there are blears Beaustyne & Serie higher "Derg," carrying 1,500 to 1,600 tens of grant also ave river elements—capacity, one 200 tons, one 130 tons, one 100 tons, and two, say, 45 tons each and occarionally coasting steamers, 600 to 700 tons, would be available.

The doubt of the channel of the river is greater than the doubt on the dock will Mesore. J. Bannatyne & Son's "Garryoven," the Harbour Commissioners' "Erin-Go-Bragh " and the

Lamerick Steam Ship Company's "Salamon" are available for sensing results docking if required, and owing. There are also outside the docks, tidal quays, say, 3,500 feet, with a depth of water at ordinary Spring tides of 13 feet to 16 feet, supplied with three 5-ton trangs and one electric 4 ten trang in process of

A project for connecting the Port with the Rullway System was repented to your Committee, which, if carried out would alter the position substantially with regard to the saving of time and outage, as vestels would be discharged direct into the railway wagons. I may said that there are four weakly general cargo coasting steamers running to here from Liverpool and Glasgow, which would be available for carrying gram back to belk and saving sacks for carriage.

ON. REPAYMENT OF LOADS, PRINCIPAL AND INTEREST, 1912.

Commuted Debt			£2.012 11 8	Principal.	Interest.
\$10,000 Loan				£400 0 0	6 27 3 4
£3,500 Lesn				175 0 0	43 14 11
genero Loss				659 15 9	153 11 6
Sir Thomas Danne's	Debt			134 0 9	10 13 3

CALLIST OF VESSELS HAVING ENTERED THE PORT OF LIMERICK, 1912

			Ocean-going Steamers	Ocean-going Salltog Vesrels	Constitute Steamers	Coasting Saling Vousels.	Yotala
Japaney February			9 3	Nil.	27 28 35 34 30 33 33 38 28 28 28 28	ND. ND.	30 33 39 38 41 48 41 34 35 41 36 30
February March			3	1	35	Nil.	39
April May			3	NiL	34	1	35
May		-	10		30	3	91
June		- 1	10	3	223	2 2	- 65
July			4	3	30	2	91
August		21		1 1	80	Na Na	20
September	***	400	0	9	21	20.01	- 63
Ortober	411	- 01		N51	20		, 24
November	69		6	200	30 33		40
December	***	(40)		Nil Nil	- 00		
			50	19	366	14	454

ADDENDIY No. 19

Berouxt as to measure of connecting the Railway Systems converging upon the Caty of Litroride with the Darks, Quays, etc., and Scholmides A to H industry spectrying perposed zer Estellaryay and Transversy with Estimates of cost of construction of same and of Rolling Scote, Shedy, Crante, see, programd and transmitted on 25th September 1918, by Messex, S. G. Proco, M. Irast, C.S., and S. E. F. Selesky,

570. Connell Street, Limerick, 25th September, 1918

The City of Limerick, which has a population of 47,000 inhabitants, has a very communiting position being situated on the early navigable tidal entury of the River Shannon, which may be said to form a material being attended on the easily intrigues man animary of near invertements, which may be the trives, which it Manchester Canal extending inhand for a distance of 64 miles from the mouth of the rives, which it properly worked should make the city a great distributing contro, as stated in the evidence of Mr. John property worker storms asset one city a great cascrabiling centre, as stated in the Power, Secretary to the Harbour Board, given before the Committee on the 17th inst. The Port affects the following inclines:

Vessels of 7,000 tens can be handled at the Port.

 Vessets of 1,000 tons can be manufed to the lost of water on the dock all at high water, Spring indice.

3. The area of the Floriding Docks is 7½ sores, with an outreace width of 70 feet.

4. The length of the Quays in the Floriding Dock is 1,285 feet.

5. There is also a Dry Dock 432 feet length of the Control of the Act of the Control of the Cont

the till at high water, Ordinary Spring titles. 6. In addition there is a length of \$,500 feet Quays where vessels take the ground at low

9. In Sources Carlo and March 1997 and Salah for sheek.
Seek E. Sight zeros of the requirement withhele for sheek.
Seek E. Sight zeros of the representation of Son, Ind., Milary, have very large stores religioning the Picacing Dork, and Moorne, P. Spanght and Son, I. I.d., Mesers, J. N. Brazell and Son, I.d., Whitesheven, Callery Go, I.d., E. The Intericité Securation Co., I.d., Studies, C. S. McKallon, I.d., and Power and Son, who are stores of the Interior Company of the C Eight acres of the quays are available for sheds.

Thus there are affected isolities for a greatly increased trade, but the fatal barrier still exists of want of railway communication between the Docks and Quays and the Railway Terrainus, utuated some 35 feet above the quay level.

There are five lines of Railway converging upon the city from Duhlm, Waterford, Cork, Traice and

Killarney, while the line running in a northerly direction by Ennis, Athenry, Claremorn's and Singo pote the city in connection with the whole of the West and North west of Ireland. Were there any ongineering difficulties the present unsatisfactory conditions might be explained, but as

ners sette any organizang unsecurity has present unseasoned protestories inges to consistent, that as a fine no such difference sexis, and a nost efficient consolite, having very case gradients and curves, whele could be worked at a low out either by steam or sketteristy, can be built quickly and as a moderate cost.

The presents proposal is a necessary modification (due to actained that halfing directly operated to Parliaments at the request of the Harbour Board and Corporation, and which passed all its preliminary stages and would have unquestiously received the final sanction of Parkisportion of the quay wall, the reconstruction of which involved a serious expenditure on the Harbour commissioners

The fixing of the route to estisfy the sequirements, both present and future, have at the request of some of the business men of the city received the careful consideration of Mr. Fraser and Mr. Shooky, who are assomated as joint engineers to the project. The line will be constructed of the Standard Guage, viz., 5 feet 3 inches, with easy gradients and

on. The reals will be steel rails of 80 lbs to the lineal yard, had on sloopers 9 tees by 10 inshes by 5 inches The rails will be seen rails of 80 He to the most year, must on some result of 10 influes by 5 most of 10,000 deepers to the mile, the rails being fished and instancial in the ordinary way. The permanent way will be laid on a best of broken stone ballast one-and-whalf cubic yards to the linest yard. The lines will be substantially feared and the urus level crossings, gates and houses, field crossings, culverts and occupation works will be provided.

The land to enable the line to be doubled hereafter, when increased trade requirements demand it, will be acquired, and any overbridges will be built as usual to sait the doubling of the line at a later

date.

The length of the Railways and Sidings necessary to carry out the proper railway connection with the existing Dooks and Quays is 5 miles. (See Schedules A and C sanexed)

It will, however, he necessary so as to properly work the traffic in the existing Docks and along the Quays to construct shout 14 moles of Transways. (See Scheduler B, G and H.)
It must be posted out that the cost of all labour and material has enormously increased, in fact it has THERE DESIGNATION OF STATE OF THE PROPERTY OF

The total askinated one of 280,000 to carry one the undertaking will be found on full considerables to be a self-only no measure on account outliness.

There has been included in the project three more Lines of Rallway, viz., Noz. 4, 5 and 6 (see Schedule A), to the site of the proposed Tidal Dock. Should Mr. Morley's project to run cargo boats direct hetween America and Limerick, as stated by him is his evidence before your Committee, he carried out, as no death it will if proper facilities are now afforded, this Dock and its composition should certainly be constructed. However, the cost of the Docks may be left out of consideration at the present moment, though it would no doubt be of great public and local

(Signed) S. G. Frakes, M. Inst. C.E.

(Signed) S. G. Frakes, M. Inst. C.E.

Joint Engineers

SCHEDULE A.

CITY AND POST OF LIMERICK BAILWAY.

Descriptions of the proposed Rulways comprised in the Saherne with their separate Lengths.

Ry. No.	Description.	Tot	st Len	th.
		Miles.	Fezs.	Chris
L E	From Lovel Ceoning at Roschines; to the Dooks- From Junction with the Great Southern and Western Bailway to Routerien Level (Pressing	3 0	5 6	6
3.	Link Line between Rullway No. 1 and the Limerick and Tralce Branch of the Great Scattern and Western Burkery	0	5	6
4.	From Junction with Earlway No. 1 at 1 mile post to the River Shareness on the Earlway with of the more and Total Park	1	5	0
5.	From Junction with Hashway No. 1, near 2 mHe post, with and parallel to the Limmela and Tarebert County Road and thepoe to the Blver Standard on the Western safe of the proposed Tidal Dock	1		0
6.	Link Line with Ballways Nos. 6 and 5	0	1	6
	Total Length	7	4	8
	Deduct Railways in connection with the proposed Tidal Dock M. P. C. Railway No. 4 1 5 0	3	3	6
7	Length of Rulways is connection with Docks Add for Siding to Ballast Each from Junction with Railway No. 1 near 2 mile root	4	1 6	:
	Total Length of Railways in connection with Donks	- 2	0 .	0

SCHEDULE R.

CITY AND PORT OF LIMBRICK BAILWAY.

Description of the Proposed Transways comprised in the Scheme, with their separate Lengths

Creanway No.	Description.	Total Length				
		Males-	Furs.	Chn		
1 2	From Junction with Earlway No. 1 to Sarzfield Street. From Junction with Transway No. 1 to Eartmete to Docks at Steam Best Orac		6	8		
3	Link Line between Teamways Not 1 and 2					
4	Gates to Floating Dock Gates to Floating Dock			4		
ā	From Junction with Transway No 1 along the Western and Northean walls of Floating Docks		8	2		
	Leigth of Transpary					
6	Add if Transvay be carried along Homan's Quay from junction with Transvay No. 1	1	1	1		
	Total Length of Transways	1	4	2		

SCHEDULE C.

CITY AND PORT OF LIMERICK BAILWAYS

Total Length of Brilways and Tramways,

Railwayz -Transpara -**Yotal Length**

SCHEDULE D.

CITY AND PORT OF LIMBRICK BAILWAY. SCHMARY of Expanditure on both Railways and Transways including Porchage of Land, Rolling Stock, Shed Cross, Continuousles, Professional and other charges.

6 Miles 0 Fires. 0 Chr Redways Transvars 0 Chris £13,000 0 Deduct Bailway No. 7 £8,730 Transway No. 6 606 £30,255 Say \$8.500 0.0 Total galgon e o Add for Bolling Stock, Shads, Ceanes &c. Cost of Order in Council £34,000 0 0 £3,500 0 0

SCHEDULE E.

CITY AND PORT OF LIMEBICK RAILWAY.

Approximate Estimate of Cost per Mile of Single Line of Rullway, including Purchase of Land Contingencies, Professional and other Charges.

	-		x	ate.	Æ	8,	10.
d neres 3,000 yeks.	Lint.		To Furcione of Land		400	0	0
30,000 yds	L Cub	-	Forming for permanent way, meluding excavation, forming ambankments.		352	0	0
			trimmung alones, etc.	/6	2,200	0	0
ltera yds 3,560 yds			, Provision for Culverts, say , Soling formation, ballasting and boxing		300		0
			18 feet wide		1,006	0	0
2,000 No. 126 tons			. Sloopers Purmanent way rails weighing 80 lbs. to		800		0
			the lineal yard £	9	1,512		0
18 tons 1,700 yds.	Link		. Fastenings		360		0
2 No -			recessary cutting, drilling and fitting - it ,, Apportunitent per mile of oast of three nounced level crossing houses, 2000,		116		٥
1 No -			Apportionment per mile of cost of form		290		0
Itom -			25,000, say Mile and quarter-mile nosts and Gardent		700	0	0
			Boards, say		5	0	0
			, Tolegraph, complete, say				ō
			£to per erat		809	0	0
			Add, for Professional and other Class	OS, SKY,	£8,870 1,130	0	0

Total Cost per Mile £10,000 0 0

SCHEDULE F. CITY AND PORT OF LIMBRICK RAILWAY.

Approximate Retinate of Cost per Mile of Single Transway, including Contingencies, Professional and other Charges.

PORMATION.	
	Bate.

2,200	Yde	, Os	b	Excavation in Foundations to an average depth of inches.	of	2/-	220	ě,	9	£	à.	d
880	16	16		8 to 1 concrete in foundations 6 in, thick		90/-	880	0	0			
								1		1,100	0	0
				PAVING SETTS.								

RAILS AND FASTERINGS.

126 Tols - Permanent Way noise weighing styles, to the lineal #19 1,519 0 0

| Lates and Payko. | Loss Payko. | Lates and Payko. | Lates and Payko. | Loss Payko. | Loss Payko. | Lates and all necessary resting, defiling and fixing | Spin | Payko. | Payko. | Payko. | Payko. | Lates |

Sup. Paving, grounts, etc., conjecte 0.1 1,280 0 0 1 1,790 0 1 1,790 0 0 1 1,790 0

Total Cost per Mffs - £8,560 0 0

SCHEDULE G.

CITY AND PORT OF LIMERICK BAILWAY.

SUMMARY OF Cost per Mile of Single and Double Line of Transway hald on old and new construction.

			New Construction.	Old Construction.
Percention Paving Setts Raffs and Pasterings Laying and Paving Contingencies, etc.			£1,100 £3,663 £3,772 £1,760 £ 160	E1,072 51,790 £ M8
Total cost of Single Line Bouble Lin			£4,560 £17,120	84,450 £8,800

Nore-Weith of Foundation for Single Line, 9 Feet, Double Line, 18 Feet.

CPTY AND PORT OF LIMERICK RATLWAY.

TABLE showing Cost of Single and Double Line of Transvay, Including Contingencies, Professional and other Charges.

Nose,—New construction coloured YELLOW, and old GREY, on Plan.

No. of Tusta- orays.		Longth F. C.	Single or double lise	Old or new con- struction.	Length in Chains	Cost per Chain	Cost in E.	Total Cost 10 E.	Observations
1 2 3 4 5	0 0 0	6 3 1 6 0 6 0 4 8 2	{ Double	New Old New Old New New New New New	15 98 3,5 12,5 6 4 98	£ 514 110 \$14 120 55 55 55 55	£ 8,240 8,380 749 1,375	8 8,490 1,114 330 220 1,810 600	All taken as no construction.
4		4 3		Non	11	- 55		£19 979 \$	fotal kap, for Transways

APPENDIX No. 20.

REPORT of Sir John Pascov Grafifik, M.Inet, C.E. on Proposed Improvement of Galway Harbour. Handed in by Mr. W. N. Bluns, R.E., Harbour Engineer, Galway, during his Examination on 18th September, 1918.

> Bathmines Castle, Dublin, 17th January, 1914.

Dust $R_{\rm H}$. In sometime with the values of the Galwy Harbor Commissioner, a scorrey to run in your letter. In some time the first Aggast, (194), and the field Aggast, (194), and the field Segment $P_{\rm H}$ and $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first wave comparing if wavening for any important $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$ are the first $P_{\rm H}$ are the first $P_{\rm H}$ and $P_{\rm H}$

Master and Kaginor.

Rr. Birne sha harded no copies of various reports relating to the Purs ot Galway marks during the past.

60 years by Mr. Alexander M. Kandal, Mr. S. U. Risberts, Mr. R. R. B. Stoors and Mr. James Price. I have
shie had the benefit of sening Mr. Birn's veropt, disact the side Distribute, 1912.

Mr. Stoorsy, in her propt, dated the 5th Jamesry, 1850, entired fieldy into the needs of the Harbourd College at the Mr. Stoorsy and the Price of the College at the Mr. Stoorsy and the Mr. Stoorsy and the Mr. Stoorsy and Mr. Stoorsy and the Mr. Stoorsy and M

terring as tens case, and expression are one specially the problem of the problem of the problem of the Prect of distance in the Precision of the Precision of

lighteen in the bay.

With this object the Commissions adopted the design of Mr. Price, and about 50 years ago began the
scentrication of a deep water clock to the saviewal of the extenses to the old Commercia Dade. The lower
permits at this clock was convented until a clock of the control of the control of the clock was convented until a clock of the control of the clock of the control of the clock of th

organ in section was decising 25 at 50 to contribute year.

Between £60,000 and £50,000 was speas on the week, but the prior never weeked santababrily, and the siph of water in the appearance in the appearance

steen return for the outday referred to.

A research that for the outday referred to.

A research that proposed deep water duck is only a fidal beam, filled with mod and open to the ebb and flow of the bide, when only anall vessels both which are prepared to its aground.

I have given sareful c. middention to this state of where, and have come to the conclusions that all effects book he conclusions that the effects of the conclusion of the

ings capital expenditure insured more than a quarter of a encoury say, on what, so far as darp water societisation is oriented by precisionly of the purpose for which is a factor of the purpose for which is a factor of the purpose for which is a factor of the object for the purpose for which is a factor of the object for the purpose for which is a factor of the object for the purpose for which is a factor of the object for the purpose for which is a factor of the object for the obj

the Beard's attention. If access to me that until the quantion of improving the approach from the one is settled, it is sourcely worth while considering other details, even such as the condition of the Dock gates. 2.78

The first question to settle is what depth should be aimed at for the approach channel from the sea, and what should be its width. We are at once mot with the fact that this channel cannot be formed simply by for time to you within the range of process politics. The Lohnita patent Rock-breaker is a thereighly according and practical appliance. It has been used extensively in the Sour Canal, the Manchester Sale Canal, the Hudson Canal, U.S.A., and the Panama Canal. A small plant was used some years ago at Limerick. The machine embedies the latest improvements. I would recommend the Harbour Commissioners to undertake the removal of the rock harver outside their dock entrance by such means. The channel should be deepened. at least to the level of the deep water dook, or about twelve to therecan feet helow Admiralty low water. This will involve the breaking up of the rock over a considerable area for a depth of about mue feet. I estimated that about 54,000 cuber yards of rock would have to be removed, and I have shown to hatched red lines on the accompanying plan the area of rock which I think should be removed. The area of rock which I propose of accompanying gain for even or took manual a same means to timered. In the farm or rock matter agreement to transver may appear concerned accessive, but provision has been made to allow long vessels occurring Gallery to swring oriside the deck entirence. As the dimensions of the deep water dock would not persua of such swringing beling dome made the dock is consoler that to be of greet impuritance. I have made extended inquiries as to the possibility of the Board purchasing a second-and breazer or heing one, but I have been unable to find any such plant available. The nore modern breakers are at work, and it work and it would be uselies to attempt the removal of the rook at Galway except with a very beavy enter. The outler in one at Aberdoon

1 52 Stons in weight. The cost of the Aberteen rook breaking plans, fincibiling basies, machinery, heavy moveting chalae, a spore man, the argument of fitting our and notating to work, also the root of improton during constantivion, and of the preliminary expresses secondated to 2500. It am informed that the nost of betting the root, instituting on the work of the extreme of the cost of large vessels entering and leaving the harbour, and although the site in which the breaker works is entirely chance of continuous working. I believe Galway to be much more favourably situated for such work, and I feel confident that the cost of rock-breaking there would be lower than at Aberdeen.

DEEDGENG OF THE OUTER CHANNEL

The dradging of the channel outside Nime's Pier and Rosencer Point presents no engineering difficulties, and could be done either by contract or with a bired dredger. A channel of at leass 300 feet wife with 12 to 13 feet of depth at low water of spring thick should be anned as. The direction of the deepened channel. to 18 feet of depth at low water of ageing takes should be harmed at. The consenter of the deepsoon extension contained feetings of the state produced by the first of water from Longh Comits and Longh Atlaini. The shannel to the dock having been exceed, the water of this next importance in this provision of parts for the dock and a wave around to discharing been exceeded, the water of this next importance in the provision of parts for the dock and a wave around to discharing the containing t to be provided, and new arrangements made for opening and closing them. This will involve closing the sotrance by a dam and pumping out the dock.

DESEGUEG THE DOCK

A large accumulation of rand has formed in the deck and the changest way of dealing with this is to dredips out the dock before closing its for regains. When the dock is closed and jumped out it will be possible to examete any deposit which the deceiger has fifted to reach.

For the cafety of vassels entering and leaving the dock it is assential to construct a pier on the north-east side of the dock entennes. This would allow vassels to be safely estable the entennes small docking time and get rid of the risks caused by the currents in and out of Lough Athalia and the river Corrib. In THE BEST SOLD THE THE STATE OF available for counting or fishing vessels, and with this in view I have included the necessary rock-custing on the north-eastern side of the mer-

CONNECTION BETWEEN DEEP WATER DOCK AND OLD COMMERCIAL DOCK.

Frequent references are made in the reports to a connecting channel between the deep water dock and the Commercial dock, so that vessels when partly discharged may be moved into the old dock. Such an the Collaboration case, so that vesseld wan party metalogied may be sure unso une on the take. Once the continue would have understooding many advantages if the bound per personal provide the funds. In my opinion it takes second rank to the works which I have previously described. I have shown, however, on the plant he form of immer contense passage which I would procument if it is to be made.

IMPOUNDING THE WATERS OF LOUGH ATHALIA

Mr. Binns, in his report of the 10th December, 1912, has suggested the desirability of impounding the waters of Lough Athalia, with the object of discharging them reposity at or near low water, and of producing a force secur to notice in the maintenance of the dispensed channel. I have not sufficient data to express my views as to the desimbility of carrying out this fogusious proposal. Before forming a definite opinion is would be percently to have very extended tital observations as to the present old and dow of the water of Lough Athalia. It would be quite worth while for the Brand to-carry out such an investigation, so that the value of the proposed impounding might be fully determined. I do not, however, think that for some time of Lough Athelia and the Elver Cornh.

ESTIMATE.

I estimate that the cost of rock excavation, dredging the channel building the pier, providing new dock-gates and dredging the present accumulation of rand out of the dock will amount to £61,110, and that the time measurery to complete the works will be between four and five years.

 seatoning me and more						4	3	1.	d.		0.	d.
Rock expansion		111	100				500	0	0			
Par		100		***		16,3		0	0			
Drudging channel					111		500	0	0			
Renewal of Dock-gates	and.	Dredging	Dock	***		5,0	500	0	0			
							-		-	47,897	0	0
Contingencies, ten per					711					4,783	0	0
Lobnitz rock-breaker	***	***	**	***	***					8,500	0	0
				m	otal					£61,110	0	

If the Beard deaths to construct the passage from the deep water dook to the old Communical deek, I suffered the relationed cent will be \$215,000, and that it would take one year to construct. As shready stated, I have hed the bender it studying Mr. Brain's report of the 10th December, 1913, and he has placed the plane of this groposate in my hands. It will be sum from my report that I have subject generally by the plane of the pl dotairs of the somewhat complicated problems which have been submitted to me, while his knowledge of the physical and trial conditions of Calway Bay and Harbour have been invelnable. Years fathfully.

JOHN PURCER GRIFFITH, M.INST.C.E.

EXTRACT from an Address delivered by the Most Rev Dr. Cleany, Bishop of Elphin, before the Canadian sacri reen an Address conversed by also have 10°. Course, reading to religion, onlive size common, Cloub, Monteaul, on 10th December, 1907, on the occasion of a white to the Carnellane Capital of a Delegation to the December Government relative to the project of an All-Red British Roset vis Benefous Day and Haliaca, Nova Sectias.—CHandred in by the Very Rev. Carnot J. J. Heyerly, P.P.V.T.,

Belmullet, during his examination on 18th September, 1918.)

BLACKSOD BAY TRANSATIANTIC PORT PROJECT.

DETAILS OF THE SCHEME

The scheme, in its most comprehensive aspects, includes the following proposals:---No. 1. "The establishment of a service between Hahfax (Nova Scotia) and Blackwood Bay (on the West Coast of Ireland) of a line of first-class steamships, capable of crossing the Atlantic in 34 days, at

an average speed of 25 knots an hour (the distance between Halifax end Blackade being 2,113 knots;"
No. 2. "The establishment of Ferries between the East Coast of Iraked (where the Irak Channel to be capable of conveying issessings and goods trains entire frees pers to pers, without disturbing passengers or unloading trucks. The difference in gauge between the English and Irish Englesys will passengers or unnowing tracks. The difference in gauge octwoors the negath and fresh finalways will be gut over by charging the begins on the curriages before those are embersed upon the fenry. Similar ferries could, and, no daubt, would, be put on the other established fresh Mini recises No.3. "The construction of cutth relaways as Ireland as may be necessary, in confinetion with

axisating lines, to provide for an express passenger service between Blackwood Bay and the Sast Coust of

The first part of the teleance proposes the building of three large stemmahips, costing £900,600 csots, or £9,700,000 in all, and so compped with the latest turbine machinery that they will travel at the rate of conjugación all, and to conjugación como de missa corente macconstri una trary uni caseo at tel riste del incos sus heur, and traverse the distance of 2,113 kinots take bes bersons Edacion in di Habitar in 34 days. Were the proposal to contemplate running to Liverpool from Habitar, at least four such steamships would be required, centreg £3,000,000. Then at the very cuttes there is effected a naving of £900,000 by adopting the Bluckeed-Halifax roote. When to this as added the saving of the £4,000, referred to shove. scoping to Bucketo-rismax rose. When to this is some an every of the se, our, reserved to above, for each journey, or £8,000 a week both ways, the advantage of the scheme now submitted becomes at once

rens. The mark of the scheme which provides for the construction of atom ferrors presents no engineering difficulties. Such fernies are being rin, of necest year, for both passages and good trials, force difficulties in the Island of Zealand, over 27 miles of the open Bellier, and on Laba Michigan, in the United States, where the waver rice in white to a bright of 27 feet, as compared with 15 feet in the Intel States, can be such as the contract of th where the waves rau in winter to a bright to 21 less, as compares with Lake. On Lake Bukal, in connection with the Siberan Bailway, a state ferry has been in use for many years, and during the recent war between Rossia and Japan rendered good service. Hence there can be no difficulty in providing such ferrica between Large and Stranger.

0.178

Is will appear from what has already been stated, that we have the recommendation of our achies or the gaugraphonal position of Blastood Bay, and on its many natural advantages as a terminal shapping The advantage of its geographous position will become apparent if we compare harbour or a port of call. harbier or a port of call. The advantage of its geographous post-servine secouse apparents a mechanism to the distance from Blochood Bay to any point on the Bast Count of the American Continum with the distances from any other available English or Irish part to the same point. Its institual advantages will become apparent from a brief decouption of its approach, extent, and environment.

The following are the distances between the principal available ports in England and Ireland, and

Hallfare (Nova Scotia) and New York, on the East Coast of the American Continent:

| Blacked Part Technol to Helber | 2113 mortical rules

	do.				2184	do
	do-		-		2225	do
Moville	do.	-	-		2373	do.
Liverpool (England)	do.	-	-	_	3450	do.
Southampton	do.				2530	do
Biocksod Bay (Ireland) to N	ow Yo	æk			2784	do.
Galway	ŝo.				2806	do
	do				2849	do.
	do.				2961	do.

3209 It is, therefore, elear that the Elsekwed-Halifax route has an advantage in ocean travelling alone over the Galver-Halifax route of 71 martial miles; over the Queenstown Halifax route of 112 martial miles; over the Liverpool-Halifax route of 137 nantical miles; and over the Southempton-Halifax route of 417 manifeal miles. If the main object of the All-Red British resus, therefore, he to shorten the sca-passage between Counts and the British Islan, the claims of Bhalcod Bay to recognizion as part of the achieur.

are simply irresistible.

Nor will its chans he less strong when its natural advantages are considered, in comparison with the insuperable difficulties and deficiences presented by any other British or Irish Port that aspires to rivalry with it. Blackand Easy is situated in the most westerly part of Mayo, and has a superficial area of 45 square miles. It possesses a obligated coast line between Doobcom Head and Blackand Point of 452 miles, and its depth at all states of the tide is so great that the whole British Navy could find safe anthorage in its promontory, is 34 miles wede, and varies in depth from 10 to 35 fathors; and, there heing no bur, sinys of the largest draughts can sall in at full speed at all states of the tide. Near Tarmon Point, to the left of the culturace, where it is proposed to creek the pure which from a part of the scheme, there is a dopth of from 8 to 10 fatherns up to the face of the celf. While the projecting bandland of Achill, which at Ben Croglian rises to a height of 2,182 feet, forms a natural breakwater to the south and south west, whence Now the prevailing winds, the bold promoning of the Mailett afferds complete shelter to the work, so that it is true to say, and has been often aid, that, while storms rago outside the Bay, the surface of the water incide is often as placed as that of Lake Geneva. The approach by see is absolutely safe in all weathers and at all hours of the day or night. Ben Croghan, which rises to a height of 3,183 feet, stands to the senth of the entrance, and is visible for a distance of 55 miles at sea; and such is its hold contour that even in starket its position is unmistaleable. To the north of the broad approach to the Bay, at a distance of startight the position is unmeasured. To use notes of the union appeared of 286 fact above the water, and its revolving sector of red light to the morth-cast, and standy white in the complement of the circle, casts a brilliant glow across a distance of 22 miles. The "Court of Ireland Pilot," which is published by the Admiralty, sage of Blacksod Bay :-

"Blacksod Bay is one of the finest bays on the West Coust of Ireland, is easy of access, and affords secure anchorage for a large number of vessels; it was always a principal resert of Her Majordy's shape stationed on this coast, and one for which they never bentate to run in bad weather. roadstead is affected to vessels of heavy draught on the west side of the Bay, below Ardelly Point. Saddle Head, the north point of Actoli Island, is about 3 miles wide with a depth of 35 fathoms, and is easily recognised by day by the hold promontory of Achill, 2,182 feet high, and by night, by Blackrosk Light standing on the mech side of the approach." Knight, in the screllent "Rictory of Errig, "states —

and most westerly position, with so much difference of time in its favour, are the great leading features to make Blacked Bay the port most desired for a terminus of such vast communications as those between America and Great Eritain."

Mr. Ball, Civil Engineer, as quoted in Knight's "the Irish Highlands," gave the following evidence before a Committee of the House of Commons on Public Works, 12th June, 1835 .-"Blacked Bay is very large and roomy, and work to any extent might be constructed within it to

bold ships. It also stards much convent into the Atlantas. At Description of all limits. (Q.) Do you of the finest grante to the world, extremely well sented for engineering work of all limits. (Q.) Do you of the finest grantle for the world. geographical nulse from St. John's, Newfoundland. (O.) Would vessels at all times he able to keep Blackand Bay ? (A.) Oh, yes, it has a large, recent, and spacious entrance, of great area within, where ships' hasing to any extent might be constructed

It is well to add that Blacksod Bay is almost entirely free from fogs, only four per cent., on an average having been registered each year for a period of five years. Then it is free from the congested traffic which blocks the entennes to the English ports, and, unlike the Mersey or the Solent, in absolutely independent of tides, so that the aid of tags would never be required. From this point of view, compare Electrical Bay with

other ports in Ireland and England

Of the entrance to Moville, the "Coast of Ireland Pilot" says: "Lough Poyle is for the most part Of Galway Bay the "Coast of Ireland Priot" says: "Meen the see is high, the swell through the Of Galway Bay the "Losses or Avenue Prior says; "when the see is high, the owen through the North Sound (between Arranance and the Galway coast) rolls along the shore of the North Island, breaking forward at the bask, and depriving it of the steller at might be supposed to afford against the westerly winds." And, in another place, the same authority states. "Galway Bay affords no well-sheltered anchorage

for large steps.

Of Questioner Harbour the "Coast of Ireland Pilot" enys: "Turbot Bank and Harbour Rock are
nearly in the middle of the attennes, and much in the way of large ships working in and out. On passing
the entrance, the behaviour at once unfolds isold, but a comparatively small perform of its wind expense is

the entrance, the barbour of once unfolus ment, that a compositively small perform of the struct expresses is available for navigation, the greater part of it being compiled by challows." When approaching other Of Liverpoot, the Sailing "Directions for the Wast Coast of England" cays "When approaching other St. Georgie's Unlamid or the Reistel Channell from the Athantic, no opportunity of accentaining and of programsively correcting the ship's position by astronomical observations should be neglected. Form had weather, and the long nights of winter frequently render it impossible to obtain a position by these means in whith case the approach to these channels should be made with extreme counting as under such circumstances, the course steered, the log, lead, and masure of the bottom, are the comman's only guide." to Me A. W. of \$500 M.E. because using screeges. In crossing the oast during strong auton-researcy with at which then there is anonisticable sea, a vecod should wish until their as it affects for feet many water or unbo-bar than the draught of the vessel."

"The entrance to the Mersoy is obstructed by bends to a distance of six to eight niles of shore. The numerous sands that excending the entrance to the Mersoy is obstructed by bends to a distance of six to eight niles of shore. will be better understood by a reference to the chart than by reading the most elaborate descripton; in fact, any attempt to convey by words correct ideas of the extent and form of these banks and the maricale It is notorious that fogs are so frequent and so dense incide and outside the Port of Liverpool, that

American liners are often detarned for five or six hours, and, when shey do move, they are offiged to do so cautiously and at a very low speed. Of Southampton, the "Channel Pilot" says, among other things which go to show the difficulties and

dangers of the enternos :-

"Fags, had weather, and the long nights in winter frequently render is impossible to obtain even the latitude, in which case the approach of ther to the Scilly Like se to Unions should be made with extreme continue. The materia, or entering the channel, should bear in mind that, from the ever-forceasing traffic in these narrow waters, one of the greatest dangers to his safe navigation lies in the risk of collision . this should, at all times, call for the utmost vigilance and care. It is well to remember that, in addition to this shault, as all times, call for the utnosi viglinous and care. It is well so premember that, it additions to the aumentum science and sailing would is following the referred relievely reach and the number of the latter creating and its extensing it, in a turning is the wendered, as well as feet of insurbate which may exemissing the sail and the sail of the sail for a sail of the sail of the sail for a saily at right angles —all stores exemine a rate of congestion of timils, while no sail of the crimentance profound in the section. (See the admirable broodure on "falling (New Scotts) to Rischood," by the Rev. W. (1997), P.P., Killado, out the two mode-quint of "Occasion.")

CLAIMS OF BLACKSON ENTARRHSTEN

Now that the advantages of adopting the Blacksod-Halifax connection in preference to say other have heen made clear, we are in a position to examine the reasons—Imperial, national and local—which recommend is to the promoters of the "All-Red Bettish Route" for incornoration in their scheme. SCHEUE FROM IMPERIAL STANDFOLKY.

The arguments from the point of view of Imperial policy, in addition to those indicated above in support. of an All-Red Borse of some kind, would be hased on speed, Colonial development, and Impecial strategy The speed of transit of the Efacksod-Halifax route may be set forth in the following time table, necessed by the promoters of the scheme :-

Atlantic Occur

19 knots average. Leave London, June 1st, Friday, 7 p.m. Arrive Blacksod, June 2nd, Saturday, 9 n m.; leave 10 a.m. Arrive Halling, June 2nd, Tuesday, 6 to 9 p.m.; leave 10 p.m. Arrive Sura, June 21st, Thunday, noon, leave 6 p.m. Arrive Auckland, June 25th, Sunday, 7 a.m.; leave noon Arrive Sydney, June 27th, Wednesday, 6 a.m.

It thus appears that a number which will take 25 days by the Suce Canal, one be accomplished in 22 days 12 hours by the Blacksod Halifax-Venecuver route; and this without the inconvenience merparable from the slow journey from Sasa to Aska. But to confine ourselves to the toute in which salvantages from the point of view of time or speed.

From he point of view of Genzalina development and colonisation, the Bindrod-Hidder revue present strategate to visible to other can super. Temple we are most proposed to centerriche from Initiad, pris, decouses in an eye may emprobe to a large state cannot be prevented. Assurable that a result of the contraction of the contraction of the contraction of the contraction of the where there were the last of the character even when the contraction can be always energiated as temple and prepared being solder than to the energouse datum of the Science, where their surroundings are not always energiated as the contraction of the contraction of the Science and the contraction of the substitution of the highest integration.

Been the standpoint of Impredicted by the development of Bluthood Bay, as a strong position on the outputs of the nature point of the best position of the outputs of the nature, own one be two strongly recommanded. On this point we recommend by perual the latter of Visco-Adwird Ber Charles Campbell, R.C.M.G., C.B., D.Sc., to Sir Thomas Tombeldge, Bart, one of the permonent of the schemost results of the schemost of the schemost properties.

SCHEME FROM IRISH NATIONAL STANDSOINT.

From the firsh standpoint we view the adoption of the Blackest-Hellifex route, in time of the argument should yet deferr, to in a matter of simple justice, as we should view the adoption of any other croise to involve nothing ben than 'a minimal wering. Irakinal pays her part of the subsky fee corrying the matter and will pay her perc of the All-Black Blacks subsky, wherever it may fire. Servey, then, is in and and will pay her perc of the All-Black Blacks subsky, wherever it may fire. Servey, then, is in and the contribution of the obstantage that will be derived from such a project. No transition without representation' should find application been, more separably when another necessible arcented and candables the head such

the redication of this scheme, from Ireland's point of view, will be easily understood.

Moreover, shough Iraland is one of the most attractive and interesting countries in the world from every

point of two, put the torsize who was her shows do not been a tilt of the applicant take trees has Admitted every see. Topic and Laterpoor de destinations, and such laws may be Ragistral and the Admitted every see. Topic and Laterpoor de destinations, and the same see he Ragistral and the same seems of the same seems

sample insolicables, each to shook, how much more probable is read by for the first agricultural laborace, who may be so as a superior of the state of the state

savings of their comings to lay mids for the future uploon of the home!

What a change all this would mean for levitatal! And yet what his been said covers only a few of the standpoints from which the bearings of an All-likel British Route, passing through irehard, on our national

SCHEME FROM LOCAL STANDPOINT.

The part of the Albide Boson is which has now we as immunistiply interned it wis assumediate of the absolute Boson is the Codings of Residents with the part of these interned in the affined comprisions form, part is immone up they as rather to a. And 1 would not be absolute pair contract comprisions form, part is immone up they as rather to a. And 1 would not be absolute pair contract to any accordance in the contract to the c

life and industries, may be viewed

counties look forward with the known amoiety and interest. This will appear also from the crideness furnished to the Furliamentary Committee that investigated the project in the House of Committee in the month of May last by several representative witnesses from the West of Ireland. A few of these witnesses hold positions of promonence which could them to explicit and detailed reference on an occasion like

(i.) The Lord Bushop of Killain gave swidenes to show that, in the joint baronies of Erris, Treawley, and Thursday, there is an area of 915 square unifes with about 60,000 of population; and for this wast district. though poor and congested, there is no sadway accommedation except the about line from Foxford to Killila, a distance of stateen miles. In his Lordship's opinion, this neglect by the Government and Radway Companies of the country, led in an small degree to the depopulation which took place in these harones between 1851

of the seaming, not in no summ suggest to the corporation when these parts in them sucreties newscent cour-ned 1901, from 88,121 in the forton year to 66,000 at the date of the last crossis.

(2.) The Eight Rev. Monsigner John O'Hara, P.P., of Crossmolina, stated that, owing to the absence of

adequate raffway accommodation, in the north-western district of the County Mayo, cettle purchased at adequise flavory secondiffications, in the north-sense date, date that the County says, course purchased at fixed latin are driven 30 or 30 units before they can reach the railway trucks what transfer them to the Dublin or Glosgow estile marked; white onlives bought in the North of Ireland for storage on the mountain peterore of M-yo zonia commission stewal as much as 30 or 00 units before they can reach their duningsfore. All this means great hardships to the sattle drivers, and considerable loss in the condition, and, therefore, in the value of the cattle.

(3.) The Rev. John Hegarty, P.P., of Kilessanca (Etris), submitted evidence to prove that in his parish of 86 square miles, and 3,832 inhabitants, there was no reflexay accommodates winnever, and that, thereof on liquide timing that of the control of the con getting the fish to market in proper conducton, the rich hervests of the sea that would otherwise become available in these districts, are niterly worthless to the country. With a scaboard, the most varied and the richest in the weed, from the faborman's point of vow, yes, in the West of Ireland most of the faborman's point of vow, yes, in the West of Ireland most of the faborman to precede the process of the faborman was surely, as a condition of things that el-1 for issued in remarky.

The late Mr. Bernard Collery, High Sheriff of the Co. Sligo, and I mys II, submitted evidence on behalf of the portion of the County Sige thas would be served by the proposed milway to prove that the extensive agricultural districts between the Ox Moquetens and the can, known as the Barony of Thoragh. suffered great hard-hips for want of rollway accountedance. Farmers who bring their could, butter, hay to market; jurymen who are obliged to attend the Assizes and Quarter Sessions in Sign, cattle dealers who go to fairs at Dremore West and Easkey—all are put to great inconvenience became of the absence of railway accommodation throughout this district. While these witnesses tendered such varied originate they were unanimous in the opinion that, if the railway now under consideration for constitution were built, not only would those inconveniences be remedied, but American and Canadian tourists would be attracted to lake scorery in the world around Slice and Dromabuir.

Copy of letter from Admiral Sir Cycrion Brales, G.C.R., relative to Blacktod Boy as a Transalantic Port, put in by Mr. J. McGoshos, charmon of Belmullet Board of Georgians and Member of Mayo County Council during his exemination on 19th September, 1918.

Dealing with the selection of Blackson Bay as a port of arrival for ships branging eargoes to the United Kingdom when the British Engere may be involved in maries for large traping are convinced this, looked at from the stategory heart of view the substitute word, it are convinced that, looked at from the stategory heart of view the substitute would be highly desirable. The route to Blackwid Bay from the grincipal areas which farmin our flood supplies has the great stantegie advantage of being more remote from a probable enemy's have of operations than other routes leading to the British fales. At the same time the distance of the most important section from our own moval bears to not much, if as all, greater than the distance from them of important sections of other rootes. The Blacked Key route would be to a remarkable extent provided by its position above. Thus it that the great moves providing, as it were, no small port of its defence stolet. The master alone made up to defend it and take it open in war might, therefore, be smaller that the force required for any other lays of communication possing to the United Kingdom. As far me possible a 1 not of communications should also he chosen where it is more difficult for an enemy to interrupt it than for the other side to defend it. The Blacksod Bay route meets this condition exactly and, occusequently, has a decided strategical superiority over other routes. The shorter a line of communication is, the more easily as a rule is our be defended, Here, with respect to routes from North America, the advantage of the Blecksod Eay line is evident. Taking the rector from South America and South Africa and also those that pass round the Cape of Good Hope the advantage, though less plain at first sight is still considerable. It will be desirable. perhaps even compalizory, in time of our to leave the part of our tredevoute lying between the Equator and the mouth of the English Charmol rather further to the vectored than the line ordinarily followed in time of manys. In that case the Biackood Bay route, even in the matter of leasth, well retain the advantages. Utilitation of the line of communication or undersute need not be confined to conveyance of food supplies. The route can also be utilized for the conveyance of that which one es pext in importance to food, viz., the raw material of our great manufacturing industries. Here again, owing great advantage to use in time of war. It will be seen at once that the food supply of freland, as far as it seemants of imports, will be greatly facilitated and in time of war made exceptionally secure by the

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stepties of Redonal Rey as the part of sterils. By completing proper transposents for the transverse of monitorial scarcing by an a Redonal Rey is closed as an an analysis and a star of the size that $\lambda_{\rm scar}$ is a similar to the part of the size that $\lambda_{\rm scar}$ is the part of the size of sterily by two often for two reads in horse size of the si

APPENDIX No. 23.

SLIGO PORT.

SCHEMULE of oversea vessels for 10 years, handed in by Lieut-Colonal Jasses Completi, A.L., eburguan of Sigo Harbour Commission ers, during his examination on 20th Sept. 1918.

Date of		Druft of	Ten	mago.	Car	go.
Arrival.	Vessal.	Water.	Gioss.	Not.	Description	Tons.
1907						
Farrancy 6 February 23	Tymedo Jany Manshestar Slingsby Newby Start Pendurves Thomas Ander-	20½ 10 21½ 223 20½ 2114 2114	3314 2469 2034 3451 2008 9416 3669 2438	8159 1659 1892 3094 1997 1554 1706 1635	Masse Masse Masse Maise Masse Masse Masse Masse	4766 3043 2049 4193 2872 3467 3700 3301
July 16	George Boyte Area Firity Anatolia Typodale Deputitors	20) 1879 1971 21 22 5 18	2040 3074 2417 3847 2048 2156	1690 1997 1543 9451 1884 1362	Maize Maine Maine Maine Maine Maine	3493 6459 3427 6892 41,85 3309
1906 3						
Jamery 35 Yohruzy 20	Pendeen Trogumo Ethel G - R. Puront-	185 90 ⁷ 7 19 19	21 8 9112 9336 9312	1848 1864 1491 1491	Magne Maine Maine Hanne	3312 3348 3390 3754
May 8	Duke of Com-	19	1704	1081	Maiso	9456
May 23	Carl Lakofer-	19 6	2060	1997	Merco	3125
June 1	Leapald II Calbone North Sanda Pentop Tussang Hampohice Sanwdon	2078 1979 35½ 90 20½ 18 10 20 7	2906 2963 3589 3043 3060 2717 3169	1951 1835 925,2 1971 1873 - 1728 9005	Mujae Mujae Mujae Mujae Mujae Mujae Mujae	4846 4348 4864 4525 4545 4161 4293
1000						
Folusary 8	Pendeen Enitgate Dulegarth Duleo of Corn wall	18:2 17:8 19] 18:5	9108 1742 9,84 1704	1349 1094 1434 1081	Mains Mouse Mouse Mouse	2319 3168 2845
May 23	Societien Bange Haalewood Medomeley Ean Cyfartha Steens Bk Crappide	18 10 19 3 20 1 20 10 20 18 3 81 10 8	3060 3102 3048 2044 3014 1400 3004 3071	1909 1903 1934 1938 1339 1297 1908	Makes Makes Makes Makes Makes Makes Makes Makes Makes	0355 0955 4957 2900 6776 9900 4456

Date of Arrival.	Vessel.	Draft of	To	nnige.	Cars	go.	
ATTIVIL		Water.	Grees.	Not.	Description.	Tone	
1910. February 12	Westmoor Case T. Jones Tregisson Vers Cardiff Hall Tregardson Tallavera Scassion Dom Benito Sola Sansenberg	2273 52 52 50 20711 2071 1178 1974 2173 203 19-5 2071	2591 2492 2272 2294 2994 2971 2971 2891 3188 3768 3044	2315 1002 1001 1002 1001 1006 1848 1376 1851 2355 1971 1942	Maire Maire Marro Marro Maire Maire Maire Maire Maire Maire Maire Maire Maire Maire	5346 3256 3017 8339 3715 3834 4246 4506 4812 4403 4352	
101.	Purtor Hardangar Trevalgan Enras Cartle Garth Carastas Milas Coverdale Chandia Colingwood Selby Tuator Milas Coverdale	19½ 21 21 15-9 22 0 18½ 18½ 20'2 19 17-8 88 18-4	2394 2419 2419 2400 2500 2500 2515 1726 2009 8017 2392 2157 2018 2366	1954 1095 1567 1578 1673 1107 1475 1238 1527 1364 1969 1475	Minuso Mainto Mainto Minuso Minuso Minuso Minuso Mainto Ma	4569 3360 3311 3782 3291 9127 3773 3104 3823 9836 6297 8955	
1912 Nutry 13	Northfield Moceby Dovedale Aden Venus Tuccusy Bosefield Forton Farmingford Sweethope	17-10 19.8 20 19 20 21 20 20 21 20 20 21 20	2066 2706 2681 2488 3132 3000 3099 2991 3146 2715	1329 1673 1796 1573 2017 1872 1900 1874 1963 2708	Maine Maine Maine Maine Maine Maine Maine Maine Maine Maine Maine Maine	79.42 3639 3818 2831 4745 4713 4467 4838 4381 4541	
1913 assury 56	Downste Ameland Haske New poet News Kotherina Rowans Alfa Ek Kolymodale Radley	\$1 19 20.7 19.5 19.11 20 10 22 21	3111 2448 2861 3031 3032 3017 1038 3229 3029	1988 1632 1786 1996 1990 1992 104 2014 2014	Maine Maine Maine Maine Maine Maine Wheat Maine Maine	4904 3592 3873 4435 4412 4429 1606 4161 4429	
1914. marky 19	Bencondale De Negoropeates Hunsis Breener Boltispes Craigand Travelyn Essengwold Bogfists Martikan Arosa	18'9 19'5 18'9 18'4 18 21 21'10 19'5 90'8 31	2094 2800 2234 1879 2458 3996 3096 3106 3045 3466 2776	1347 1673 1333 1179 1577 9199 1166 1980 1334 3193 1709	Malac Malac Malac Malac Malac Malac Malac Malac Malac Malac Malac Malac	3286 4100 3103 2001 2004 4864 4316 8257 4705 4708 4676	
pril 29	Rocesby Arechondo Azell Exten Sweethope Affalda Antomo Darwin Allalfa	19 17:9 19:3 19:5 19:5 19:5 19:9 90	9901 9072 9072 9074 9890 9715 9990 9510 9787 9998	1683 1380 1967 1795 1708 1917 1063 1797 1860	Maion Magos Magos Mago Maion Maion Maion Maion Maion Maion	4847 2047 4511 4378 4379 4735 3894 4358 4964	

| 19¹/₁ | 2783 | 1690 | Maiza | 16 | 1780 | 814 | Maiza | 19 | 8884 | 1291 | Maiza | 21¹/₂ | 8110 | 1430 | Maiza

APPENDIX No. 24.

COPY of a letter, dated 11th September, 1918, and extract of a letter, dated 13th September, 1918, from Mr. Wm. Laber, sometime Harbour Engineer of Silgo, enclosing copies of newspaper leaters written by him from time to time advocating the development of Signs as a Transmissionic Port. (Mr. Laler's proposals were referred to by Mr. T. Sossies, M.F. for North Sign, in his statement to the Sub Committee on 20th September, 1913.)

St. Rathear Read, Ratherines, Co. Dublin, September 11th, 1918.

See Arthur Shirky Bean, M.P., Chairman Canal and Port Transport Facilities in Ireland Sub-Committee. SIL

Company to the control of the second form, newspaper better writted by no, some of which I burnedly some you, boost, upon the Isla links, in which, in effort or explicitly, I upports the view that Sligo Bay should be included as any Government leavestigation by experts, make for this purpose of determining the site of a State portfold Tomesthaint Linary Feet upon the Word Gast of Hesland.

Change betters are based on the assumption that, while Blacked Bay is in respect of latitude and longitude the best for such a port, its adoption is un-difficted by the accompanying accessing a constructing a long milespy of radway, non-paying locally, and thereby rendering this location really the least operanical of those available

Proceeding from this book they maintain upon grounds stated that Sligo Bay much more than Gilway Bay preserves the above mentioned longitudinal and initiatinal advantages, and that Sligo at the present They also urge, by extracts from Government publications relating to Blacksod, Galway and Sligo Bays, and Habfax, Nova Scotis, that no comparatively unfavourable estimate has been formed by noval

authorities to to Shipo relatively to the others. And, moreover, that the amount and character of maritime The remitting most important point contended for in the letters is that there are important grounds for

to entager training or engo, taken for granton rather than accompose to be about 10 fit for the first interest of the first for the first position or character of the works necessary at Shgo Ray. But without doing this, I may state that I

 Four positions affording invariable features for the construction of the requisite shipping accummodation, mainly lessed upon the same recognized engineering expedient for this purpose. 2. One position in which the physical features partly are and may be entirely such as to make the

S. One position, partly examen to one of the first and to the second of foregoing, in which the works would be more of an equal union of the two methods referred to than is the case with the other postuces.

I am, Sir,

Your obsdient servant, William Laton.

Sometime Harbour Regineer, Sligo.

36, Rathgar Road, Rathmures, Co Dablin, Sept. 19th, 1918.

. . . I wish to ask your attention to a few figures which, I am confident, justify the correctness of naticipations formed by me in 1884 and contained in the Appendix No. 28 to the Second Report of Common

Select Committee, of 1883-4, on Harbour Accommodation The total Foreign and Colonial Shipping tonnegs, of Ireland for the year 1913, the latest I have found was Same, average of 3 years 1883 5

> The tonnage of former year being 2.05 times that of the latter average. The total said tomage of West of Ireland ports-Skibbereen included-for 1918 was Same, average of 3 years 1883-5

. 11,054 Toronace of former year only 1-07 times that of the latter

Mary of the domants of the explanation of those stifting and, at Frestires to expect in the options of the Stoch Commission, and are as the West Commission, and care the West commission, layer dopened, general establish the desired during your visit to them. But much fuller general establish that the few figures I have given as executary to fully maply toke, and they are not easy postupa, not possible of collection by we midwideal, though they could, I have, be got cut without any great definingly by the Transport Section of the Department of Agriculture and Technical Interestion. Muny of the elements of the explanation of these striking and, as I venture to expect in the opinion of the

I am, Ser, Your obedient account, William Lakou.

Sin-Arthur Shirley Benn, M.P., Chnirman, Irish Teansport Sub-Committon.

APPENDIX No. 25.

STATEMENTS by Mr. James Dunbay, Chairman of the Danegal County Council, and Mr. J. Sitadman, M.A.S.,
M.Inst G.S., Surveyor for County Dengal, relative to additional and improved pier accommodation
on the Duncyal count, immunited by Mr. J. F. J. Status (representing the Schröner to the Danegal
County Council) after his examination on 23rd September, 1918.

(a).—To the SECRETARY of the Irish Sub-Committee to the Parliamentary Committee on Inland Transport.

The County Council of the County of Donagal respectfully beg to place before the Irish Sub-Committee the following corporant works that they consider should be carried ont in the north-west division of the

Goardy Design 1:

Levshord Hy great may the Government given a from goard of our distriction for the connectation of a few many rates of the same produces confliction, here exists of hereign at time, because and other contracts of the same produces and the sam

Combines to only with this nature as the entirely possible consens.

— In the distance of which possible only to the possible of large and Changlain, accordance to the control of the con

3.—All present there is a collary consisting to the sow of Gentics, which is within a desired at much consideration, and analyzed the consistence of the consistence

(Signed) James Dungervy, Chairman. On helalf of the Donegal Councy Council.

Paritymentary Committee Inland Transport (Irish Sph-Committee). Agricultural Bulblings, Upper Merrica Street, Dublin

SIR,-The following are some of the cases that the Donegal County Council desires to present for your Committee's favourable consideration.

BUNGRANA PIER.

Facilities are regently required for the development of the fishing industry so as to accelerate transport and it is imperative that the echeme of the development commissioners for examiling and improving the accommodation here should be put into execution. Everything was arranged for, and the work was about to hope in 1914, when the declaration of war led to a postpousement. Furthermore, so the Lough Swilly Radigo, Company are distinguishments in a Bill this pair to true traction between Historical Radigo, Company are distinguishments in a Bill this pair to true traction between Historical Radigo and the more necessary to suggested the harbour development. By a second restricted from Historicana, to Rathemilian and Portsalen also transport problem for the population Birting in the large area of the county occurred to the contraction of active development of the more problem for the population Birting in the large area of the county occurred to the contraction of active and the fact that the contraction of the contraction of active and the fact that the contraction of the c this large aren referred to med, me consequence, the transport difficulties are considerable, cost of long distance carting very heavy, while the descriptings arising through delays operate most unfavourable. against traders connected with this area.

RATHMULLAN PERL

Here also an extraction of the pior is required to mable awar small attantion to carry on. In consequent the surrounding population is placed as a great disastructurage. The Development Commissioners recognised the necessity for this work such a scheme was practically ready to put into exceeded in 1914, but, owing to the war, avagended. This work is also being required. DOWNING'S PIER

This, like Bungraus, is a very important fishing centre, but lacks the advantage of proximity to a radiway. Gresier facilities for transporting fish to Creaslough radiway station are required, and some dredging is necessary at the pier to provide bester herthing accommodation for trading and fishing vessels.

(8|gned) J. STEADMAN, M.A.L, M.Inst.C.E., County Surveyor for County Donogal.

APPENDIX No. 26.

Copy of REPORT on the Ballycastle Mineral Field by Bakert Elder, M.E., M.I.M.E. (of tilangow), handed in by Mr. Arthur Hunter, Managing Clerk of the Estate Office, Ballycastle, Co. Antrim, during his

The unineral field is elevated on the North and North-Eastern Coast of the County of Antrim, and extends from the town of Ballycools to filtrickle Bay on the East Coast.

The town of Ballycools is the only one in the district, and is the terminus of a Right railway which connects with the Middland Rullway (Noethern Countries Council) main line at Ballymonay. The situation of the "Field" is excellent for development, as its position commands transit familities by land and on.

HISTORICAL NOTES.

Twalizion has it that the mines worked here are amount the oldest in the British Isles, and considering Tradition has it that the times worthed new are amongs the Golden in the straint ince, and convintency the approximations of the charges, one one saidly believe white. The assume converpings on the office however Bullycards and Tair Hend, and size at Murlock Bay, liest themselves to easy development. The only office of the time of the straint of the convergence of the straint of the contract of above firm gave up working very little has been done in the field.

About seem year name of very more may seen once in once in the need.

About seem years may a Company was formed to work the cost, and they such two shotts as Bellywey to the cassed cost. The Company was only in existence for three years, when, owing to lack of capital, they want into Dapidateco. All the work done, except that by the last Company, was consined to Colliery Bay and Marticke Bay districts.

GEOLOGICAL INFORMATION.

The "Field" is in the "Lower Carboniferous Series" and the "Calcularous Sandstone Series," being The "Piles" is in the "Jower Curronization Series" and no "Construction and consistence of the grouped of massive standings, which, thin held of thinsoons, inventous and cod sears. A very good secreta of the "Ilover Curloniferous Series" can be got on the diffic forming the coars' line between Ballyoutsia and Taff Hada, showing the ottocape of the difficent seams.

There we no doubt that the "Formation" is identical with that in which the off thales are worked in Scoland. I lind on difficulty at most proportion, the slight-for seam of Ilonestean which decreapes in Culliary Scoland. The or difficulty at most proposition, the slight-for seam of Ilonestean which extraorpe in Culliary

As the outcrop of the eight-foot bed of limestone is at one level, there should be a considerable thickness of preductive strate below this berizon. At Phomporeton in Scotland there is up to 1,000 feet of

The "Fuld" is much troubled by faults and volcame intrasions; these disturbances follow a more or

These volcanic disturbances are associated with oil shalas wherever found, and do not seem to affect to any great extent the productiviness of the shales. Practically the whole of the field is capped with short basalt, and I noted several zones of sheet basalt through the "stratefied rooks; these are very much in evidence in the Murlook Bay district. How those shoots or sills of baselt affect the shales and roal scores is always quoertum; in some cases they burn up and drive off any volatale matter the seams contain; in others they have no appreciable effect on the seams.

d made digitised by the University of Southampton Library Digitisation Unit

Average 3 feet 6 inches

ESTATE OF BALLYREACH UPPER AND LOWER, COLLIERY BAY DISTRICT.

SHALES

In this district the seams outerop on the chiffs forming the coest line.

The outerops are first met with about half-smile to the sast of the town of Ballyeastle, continuing for a distance of four miles to Fair Haad. The chiffs gradually res in keight from 150 feet near Ballyeastle. to 836 fast at Fair Head. The scans of shale outcropping on the cliffs are eight in number, varying in thickness from three feet to seventeen feet, making a total thickness of ninesy feet of shale, of which about twenty-five fact is true off shale. Numerous mines have been driven into the face of the diffs to work the coal and ironstens. Some of the mines could be put into regan with very lattle expense to work the some. Owing to the disturbance caused by the faults and volcanie introdom, it is prestically impossible to arrive at the true dip of the seems, but as near as I could estimate, the dip is between 5° and 10° from the horizontal

dipping in a nonth-cast by scale direction.

I satinate the "Field" to contain the following oil shale reserves .—Allowing 25% for loss of facility. intruston and loss in working, and taking only 5,600 seem of the 9,250 seem, as the remainder would

COLLIERY BAY COAL SEAMS.

Three seams of coal bave been worked here, vis. :—The Hawk's Nest, the Main Coal, and the Best. The seams are free hurning hituminous coals. The Canal Coal overlies these seams, but has been very little worked.

CHANNEL COAL STAN.

This is the top workship Seam, and has been proceed in several places on the coast Hen. At Ballywood that own was prevent as a depth of 6 f Sicheen, 2010 feet from the a serious by two chalfer sends aloust several warming by the Balliats Hen and Coal Company. The seam is of a good workship thickness, waving between two feet can distress and a ball feet, and gives the following analysis by Balliats Theories on the company of the company o Analytical Chemists, Glasgow.

GRANNEL COAL. Gas, tar, ote. -Sulphur Fixed Carbon -100 00

I consider this a good gas coal which would command a ready market. By slow distillation this Channel Coal would yield a good quantity of oil. ESTIMATED CHANNEL COAL RESERVE.

Thickness of seam

Area - - - Total amount -4,630,000 ... 13.850,000 ... 13,860 tons available.

HAWR'S NEST COAL SHAM.

This is the second seem of workship coal from the top; it has proved to be four feet thick, but in anne so not second seem or workers com from the copy, is not proved to be now feet thick, and incens it has your down to two feet thick. A large area of this cost has been worked in the Colliery Bay district at least 500 agres.

ENTINATED HAWK'S NEET RESERVE :--Thickness of sesses -

Average 3 feet. Area 5.600 seres (less 500 worked) -20.195.000 tons Total amount . Less 25'/, for loss . 5,049,000 ... 15.147.000 ...

15,147,000 tons available. MAIN COAL STAM.

This is the third seam of woofsable coal met with from the top. This seam has been the most extensively weeked of any; quite 1,000 acres of this seam has been worked. The seam varies in thickness between four fees and seven feet; at the Griffin Mins, where I saw it expand, it was four forethick. I consider this coun to be a good burschold coal, and is should command a good market.

ESTIMATED MAIN COAL RESERVES.

4 feet Thickness of seam . Area 5,600 ocres (less 1,000 acres worked) -26,495,000 tons. 6,634,000 , Less 25°/o for Loss 19,872,000 ...

19,872,000 tone available

BROT BED COAL STAM.

34,344,000 tons

This is the fourth seam of workship coal mot with. Very little of this seam has been worked, at the most 300 seres. At Bath Ledge this scam was worked, and varied in thickness between six fost and mine Sect. As R is not possible to see this same it is impossible to judge its quality, but as it occupies the same position as the Houston coal in Scothank, it will probably be of infarfor quality.

ESTIMATED DEST			
Thickness of seam			6 feet
Area 5,600 seres (less 300 seres wor) Total amount	ked)		5,300 acres
Less 25 per cent, for less			45,792,000 tons
rass to but come not took		-	11,448,000 ,,

34,344,000 tone available

COLLIERY BAY. TRONSTONES.

Numerous some of frommore outcop in Colliny Bay. These sames very in thisbness from a few inches to filters facilities the filter facilities to filters for facilities to a filter facilities to the filter facilities to the filter facilities with the coll or shade searce. The fromtone have been at form of the filter facilities for the filter facilities facilities for the filter facilities for the filter facilities facilities for the filter facilities Acces.

Analysis of Samples of Shales taken from Outcrops at Contieny Ray. Analysis by Tatlock and Thomson, Analysical Chemists, Glasgow :-

The samples represent the full thickness of the shales and from the results got there is reason to believe

there are good source of oil bearing shales in the messerge.

Sample A, Jame Coal Saint, 15 feet shirk—I gallone Guide Oil per ton.

Sample A, Jame Coal Saint, 15 feet shirk—I gallone Guide Oil per ton.

Sample B (Top) Main Coal Shale 15 feet thick—5 gallons Grade Oil per tou.

80 feet over Main Coal 10 feet thick-8 gallone Crude Off per toe, 32-88 Ammonium Sulphote. Somple G (Bottom) over Hawk's Nest Coal 8 fort thick-5 gallons Crude Cel par ten, 38 36

Ammonium Sulphote. Sample H under Basalt cap 17 feet thick—5 gallens Coude Oil per ton, 35 56 Ammonium Sulphate Sample I usuari Essais en ja vest tance—guarres terme use per cor, as es alimentum computes.

Es era samples were teased by Talleck & Thomaso - three of the samples gree only a trace of odi, two
samples gree only wis galkons, and the remainder averaged from four to even galkons of Crude Olf per ten.

Hence, Talleck & Thomason tate that "the Squres induces a possibly of richer samples teling

obtained if those analysed by us are merely from outcrops."

BALLYVOY DISTRICT.

The baselt cap is entirely about here, and the strata are covered with a considerable thickness of drift. The two shafts sunk hare by the Belfast Iron and Goal Company were put down to a depth of 42 fathoms, 128 WO essents must note by see Joseph and the control of the cont to believe that oil shale in paying quantities will be got here.

COAL SEAMS. The coal worked in the pits here was a Channel coal closely recembling the "Torbanchill Miners!, where was worked in Scotland for oil and gas manufacture. This Channel real has been proved on the coast at Collier Play; therefore, there is every reason to believe that the other reans would on the styre. will be get here by making. I understand a berehole was put down here from the bettom of the shaft and can through a seem six feet thick, but as there are no records left of this brobble, this information cont. he relied upon. (See my notes on Channel coal in the Colliery Buy District for further information.)

A very good seam of Silies occurs here under the coal seam, giving an average thickness of seven feet. Silba commands a ready market; therefore, there would be prostically no refuse from the working as this seem could be worked in conjunction with the cost. Most of the Silba used in Britain is imported from Norway , therefore it should be possible to compete successfully with it as transit costs will be hose.

The following analysis was made by Means. Tatlock and Thompson, Analytical Chemists, Glaggow :-

Silica	-			-		-		-	-	-	-	-	93.15	
Alumina		-	-	-			-		-				3:37	
Oxide Iron			-				-	-	175		_	_	39	
Titauic Acid		-	-	-	-		_		-	-	-	-	148	
Lime	-	-		_					-				- 80	
Magnesia	_	_	-				- 3			-	-	-	2.03	
Potash	-		- 2	-					-	-	-	-	18	
Soda	-				-	-	-				-		-15	
SOUA	-	-	-	-	-	-	-	See	-	-	-	-	-65	
													100:00	

SELECT COMMITTEE ON TRANSPORT (1818H SUB-COMMITTEE). MURLOCK BAY ESTATE.

SHALES. Hereated two scame of abule here out-cropping on the face of the cliff, but owing to the intrusive sheets of books resing providedly on the scame, any volatile matter they may have contained has been driven arrant face Bo-

Six seams of coal have been proved here, which proves the continuation of the bads from Collicey Bay through Bollyroy to Muriotik Bay, as the beds are undoubtedly the same as those which out-crop in Colliery Bay

The coal seams average two feet six inches in thickness. Two of the seams are anthrauther due no doubs to the preximity of the basalt; the four remaining seams are free burning bituminous coals. Although the mines were worked here for some time very little coal has been taken out. There is a big reserve of coal in this estate, but as the Ballyreagh Estate commands the approach to it, is will only be necessary to soquire it when wanted for development.

BALLYREAGH UPPER AND LOWER. NORTH OF LEAST

The lease should include the following minerals: coal, ironstone, silies, limestone, backete, clay, firecher, shales, oil, shales guanister or may mineral such with in the onlinary centre of staining operations.

The lease should be for a period of at least 60 years with a three years' surrender choice. The The rent (£350 per annual secure to be rather high, but the royalty (3d per too) is very reasonable. If possible, a few way leave should be arranged from adjoining estates. Should this not be allowed, I consider jd. per ton a reasonable rate for way-leave

LABOUR FACILITIES. It should not be difficult to induce labour into the district. Wages of unskilled labourers are low, and goacral behouvers plentiful. The Scoots coal fields bring mar, minor can be easily got. The lack of added princer has erfectly headicapped the other coal fields in Ireland, but owing to the position of the Ballycastle coal fields, I consider miners out be easily induced to the district.

TRANSIT FACILITIES. The town of Bellycostle is exposed to the standard little gauge callway by a marrow-gauge line 12 miles long at Bellymonoy. The line is in a had state, and I am of opinion it would not stand beavy tentile. Should the trailly extracts to the Reilway Company would no death resonation to the line to the

standard Irisb gauge The best exhibit for the infinerals is by son. A good harbour could be constructed in the Colliery Bay and the whole of the output shaped from three. A the hard transit and the harbourage would be in the Maning Company's hape's transit, mosts could be out down to a minimum. Relivery labour troubte, etc. would not have any effect on the Mirring Company's burness.

Too situation of the "field" is ideal for a cooling station, being on one of the principal trude routes.

CREWBRAL REMARKS

In the Colliery Bay district a number of the mines could be put into repair at very little cost, and a good output sould be drawn from them. Bullyroy in the best position in the "field" to develop from. The two shafes sunk there could be seed. By snaking those shafe to the lower manual the work could be centralised, the area of the "field"

proved, and working costs reduced to a minimum. From the Enllyvoy shafts | consider an output of 800 tans per day could be raised. Taking 280 Valuing this output at the low average selling price of 10/- per ton, this gives an annual turnover of

£113,000. I consider the expenditure of £50,000 would be ample to sink the shafts to the lower souns and thoroughly squip the colliscy. raging equip the contery. Working casts, including invarance, Rates, Taxos, Stores, etc., would range from 7/- to 9/- per ton. I estimate the "field" to contain the following coal reserves, allowing 25 per cent. for less through faults

Taking everything into consideration, the proposition, is a very good one. It would be advisable to downtor the Ballyvoy shafts before anything further is done. I consider the

expenditure of £1,000 would be sufficient for this work. There is a good site at Ballyvoy for the creation of plant, I have estimated the "make" of the water in the Ballyvoy shafts to be about 200 gallous per misute.

BORRET ELDER, M.E., M.I.M.E. H. WALKER, Cannon Rock, Howth, Co. Dublin.

APPENDIX No. 27.

COPY of Letter from Mr. J. Harrison, Secretary to the Monaghan Gas Company, relative to the Ulster Canal. Monaghan, 19th November, 1918. To Mr. P. MacNulty, Doblin.

DEAR SIR. Yours received some time ago se Canal from Bellius to Monaghan. I have had this before my Directors and they have instructed me to my !--

For some time no service has been running. They rungest that the Canal should be purposely cleaned out some time during the amount. The supply of water is not what is should be—the ontil be remarked by attention to the reservoir. They suggest that a prompt and peaceted delivery should be also should be possible that service. Sometimes it is impossible to get vagoes from the Endracy Computer Day was continued in this service in a late no good overlaps one in the late are to be not be reserved.

Yours faithfully, J. Hangason, Secretary.

APPENDIX No. 28.

Consparative List of Coal Rates and Sintement of Coal Tomage carried by Rail handed in by Mr. Frederick Ferrit, Coal Merchant, Norry, during his Examination on State Sapet, 1918.

(a)—Lawr oy Raven per ton by Marthandise Trains for Coal in 6 Tee lots at Owner's risk between Newry (Albert Basin), Dundalk (Barrask St.), Bellast Quays, and the undersoled stations.

Stations to		From		Stations to		From	
	News	Dundalk	Belfast.	Stations to	Newsy.	Dundolk	Belfas
Artunals Art	10000000000000000000000000000000000000	deporter:	4 8 8 1 1 4 1 10 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Both by Both b	401488000004293080050115110011098452888618828100101162618	C. 11 17 1 6 6 8 8 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 78 88 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The rate quoted from Bullat Quay include 35, per ton for tolk psychole to the Bullate Harbour Commissioners. The rate quoted from Dunckilk does not include 36, per ton payable to the Dunckilk and Greenove Bullway Company.

(6) .-- COAL CARRIED FROM PORTS TO G.N.R. (L) STATIONS AND STATIONS BEYOND.

	Yes: 1912.	Year 1913.	Year 191
Dundalk to Local Stations	Tons. 46,974	Your, 52,399	Tous, 50,451
" Other Companies' Stations	1,297	4,816	5,691
Nowey to Lord Staticus	16,485	88,007	78,996
, . Other Compenses' Stations	4,800	10,061	7,812
Warrengeint to Local Stations	28,335	50,625	36,800
" " Other Companies' Stations -	1,000	4,083	3,000
Belfast to Local Stations	163,146	118,140	117,179
Other Companies' Stations	3,518	4,211	4,859

APPENDIX No. 29.

REFORM dated 29th May, 1885, 1st May, 1895, and 18th Ostober, 1998, to the Dandalk H Commissioners on their Herbour Works, by Sir John Person Griffith, M.Inst.C.E. and M.Inst.C.E.1 (e) Greenane, Temple Road, Rathmines, Dablin,

May 29th, 1895. To the Cherricen and Commissioners of Dandolk Harbour,

In compliance with the request that I should impost ontain weeks in your Outer Harbor, convey to me by your Secretary, I resigned brandle on the [In] thin. On any arrival I was contracted yout by your Secretary and Engineer. Having proceeded to the Harborn Othes, Mr. Calill showed me the various plans which have been perspected from two to time for the improvement of the harborn and explained to me. present state of the works which have been carried out

Subsequently, in company with Mr. Pasterson, I improted the wherfs, and the Inner Harbour up to Dondalk Bridge. Later in the afternoon, in company with the Chairman and oversal of the Commissioners. I went down the Outer Harbour by host to the steam-diedger, which was engaged in dredging the Pot-Hel Your Scoretary, Engineer, and Harbour Master accompanied us, and from each of these gentlemen I

Note: Your conventy, magness, and has over research recognitions, by our round over or large generalized increasion. As it was low mater I was able to obtain a very fair idea of the condition of the navigable channel of the Outer Harbour, and, with Mr. Cabill's assistance, a char length into the size. the further approximent of the port. Having remained on your diedges some time, I proceeded further down the inrhour with the Charmann, and landed on the East Bank, which extends into the channel to the south of No. 4 Boson. This bank is

and landed on the most state, which extenses muy the control to the source or on someons. The control is considered by the divide in those his North Ball over the east trinsing wall, which is here completely buried under the sand for a length of about 1,500 feet. The most senthers justy on this side of the river is also beried. From this point we obtained a good wife of the control and the point we obtained a good wife of the control and the work of the control and the cont the east side of the channel in the neighbourhood of the lightbours. I have been informed that these banks have greatly increased of recent years. Mr. Cabilli is of opinion that when the Pet-lid Bank is dredged through, the training wall on the opposite side of the channel should be completed, and thus this will result

in the washing away of the East Bank halow No. 4 Bescon, to which reference has been made. removal of the sand banks on the cast side of the sbannol near the lighthouse he considers it will be recognity to extend the west tening well from No. 2 Beacon someries, as originally designed.

As I was desirous of observing the progress of the first half of the flood tole across the North and South Dalli, and up the claimed, arrangements were made to bring me down to the lightheure before for water on Saturday morases, the lith inst. As exchingly, in company with your Harbert Master, I reached the ligh-bones by 5.30 a.m., and we watched the flow till 9 a.m. I thereby gained very valoable information as forms by 2.00 km, and we reserve the new this F a.m. I torredy games very venesare increments are requests the direction of the flow of the tide, the undulations and contour of the North and South Bolls, and the various tidal channels through those banks. The corrorous extent of the sand banks which have

the various find element integral these banks. The corroons extent of the send banks which have correcteded on the navigable channel specially improved up.

The general design of the training walls in the Outer Harbour was had out by the late Mr. John Neville. Mr. Callift, your residuant enginess, two lovally address to an easi-jointly corried out his Nevilla's plans as far as the funds at his disposal permitted

In discussing those works it is important to bear in mind the object for which they were designed. Up to the year 10dd the channel was to the carried of it; at the period of the Administrative process. 1858 is was to the restract of the lighthouse, and is now (1801) agons on the east note of it." Such, then,
was the state of the channel at the time of Mr. Noville's report of March 8th, 1854. From this report it is quite clear that his aim was to regulate the navigable channel from the lighthouse to the Point, and fix the

Mr. Noville was not early house agrees want and measure or season arranges.

Mr. Noville was not very sangument that the works would result in any very great increase of depth of
water, for, he says, " the harbour must always remain a tidal one"; but in criticising his designs it is only 2 Q

just to bear in mind that the chipping requirements of his day were very different to present day requirements, and also that this proposed works have never hom completed.

It appears to me that the greet question to be decided in, Should the training walls be completed, as designed by Mr Novilla, and, if they are to be completed, will that ye provide the Enterior of Dundalk with a

designed by the Scallin, and, they are to be completed, will they provide the Histoner of Densidals with a feature 1 law recommendation of the scalling of the

It is but his that I should make that at the time there works were designed but little was known of this difficult bashed a engineering, and it was not full soon. If 9 supers later that the law, which genero the flow of water in such channels as Mr. Neville proposed to form were occutifically investigated, and it was not till more than 70 perus after life. Neville is respect that the after of training within a fiddle advantise and

heavy was made the object of practical recognition, and phased cannot let domain of more conjecture. The sample pills for the construction of the Machester Sing Count were thrown out by Parkinsons in the County of the County o

the Europea Bar.

A comparison of the Dundal's channel, as shown on Mr. Neville's plan of 1864, with the state of attairs as the greated day proves that the contractation of the tendining walls have been followed by grout accumulations of small catabods the walls, appealing outset he asks wall. B. is to this assemulation that I would repositly wish to three the attention of the Commissioners and predicalety to the great loads to the outside Nr. 4 Bancan, where the main few North Boll bus passed were the weal fine the channel, burying the

spointly wash to draw the attention of the Commissioners and particularly to the great bank to the mosth of No. 4 Blaces, where the small from the North Bull has possed over the wall into the classical, burying the wall for a contributab length.

The plant of 1866 shows the low-water channel at this point extending some 600 fost east of the line of the present east wall. This will give some faint blass of the magnitudes of the accommission. The burlies

the present east with. The will give some lamb this of the manginaries of the declinations. The names quantities of first and of the the declination of the name of the name of the three declinations, which is knee constrained allow water (on the state manner), which is knee constrained allow water (on the state manner is an application). This course of the same of the name of the state of the

the extent to which be expecie, for the supply of fresh and from the key would remain unrestricted, within the said removed weald only in dispolated lower down the channel. For this reason I believe it is absolutely measurer to take measures to stop the invited in succession to hardow the hardons by raising the burst testing well above this stand level, and keeping it shows in these after

By this means alone will it be possible to menutain the claimed at any reasonable instead expenditure, to say nothing of improving it.

Having thus sketched briefly the present condition of the harbour, I box to make the following

recommendations:—

- refer—That the drudging away of the Pet Bd Bank be proceeded with as rapidly as gossuble, and that as soon as the present one of 300 feet in which is finished, an additional width of 100 or 130 feet be

designs away with the signs of savigationing the channel and leadinging the in-thering tide.

Scored—That the steep, which is an inferrence the Consciliations have controcted for, to used as more the cost instaling wall where is or at present barried seath of the No. 4 Beacon, instead of in an extension of the cut will have seen No. 4 Baseon and No. 7 Beacon and No. 1 Beacon an

east wall netween No. 4 Descent and No. 4 Descent Third—That mofurther extension of the training walls be carried out eastl a complete survey of the hishour and port to made.

I would urge the Commissioners to have this survey made as seen as gossible, for on it alone can a justure policy of port improvement be safely Sounded. Such a survey must be a detailed clarit of the port and harbour on a large coals, giving the consulting throughout in reference to a definite datum. The levels of the North and South Bull strands should also be fully sovertained and marked on the chart. This closer-vances of the tries and fail of the folic full different parts of the poor dering a protograp pricted should be made, and

herings absolid to obtained in the channel ind on the late.

The direction of the currents in the bay both on the flow of and this tides should also be necertained. Such a survey is, of overs, a work of great bloom, and can only be extend out by a shifted surveyor. Once completed it will from an unrelatable goals to the Commissioners and that's relatable orderings no design on

compacts to the internal measurement guide to the Command without much extension assessment on the text is contained with north all filters energies are be compared.

I am included to take a very bopoint view of the possibilities of improving the Port of Durchilk to such an extent that it may be open at all status of title to wassis organged in the crease channel and counting truth. It possions an antimity beliefered from farmous, and in very traversally decreased on anymorphism.

its range of tide, one of the most powerful factors we passes for got improvement.

I named close without signi expressing ny obligation to your Regimen, Sewretany, and Harbour Masser
for the assistance they so willingly gave me when in Dundsilk. I also heg to thank the members of your
Based with whom I came in contact for their kindly attention to me.

I remain, Gentlemen, Your obedient servant,

SELECT COMMITTEE ON TRANSPORT (TRISH SUB-COMMITTEE). REPORT.

(b) Greenanc, Temple Road, Rathmines, Dublin, Mey 1st 1894

GENTLEMEN On the 20th January, 1806, your Secretary, Mr. Farrell, wrote, informing me that Mr. Creatbreithe and completed this servery, and fact lid it is before the Commissioners, together with a report embedying the results of his observations, and that the Commissioners had instructed Mr. Creatbreithe to proceed to Dablim and lay the whole matter before one, with the view of obstaming from me a report on the majorevanesses.

which I should recommend to be carried out in your harbour.

To accelerate with the resultant, Mr. Condwarts handed are his survey and a copy of his report. It has been been supported by the report of the Sub-May, 1896, I made three recommendations——
Find—That the designed of the Sub-May, 1896, I made three recommendations——
Find—That the designed of the Find-Mak should be carried on an rapidly as possible with the

object of widening and straightening the channel at this point and facilitating the in-lowing tyle. Second—That the buried training wall south of No. 6 Beacon should be immediately rarsed above the strand lavel, to check the sucreasiment of send from the North Ball upo the chancel. Third-That a survey of the Harbour and Port should be made before say further extensions of the

ing walls were carried out. I wish, in the first instance, to express my satisfaction at the manner in which the Commissioners have

carried out these recommendations After my visit to Durdalk last May, the deedging of the Pot-bil Bank was continued, and the channel considerably improved, before deedging operations were suspended for the session. The despension and underging of the classed at this point should, if possible, be contented this sources.

The buried training wall south of No, 4 Beaton has been raised, and the encrosekment of the North Bull cands into the channel has thereby been checked

A survey of the harbour, extending from the Quays to the Bar, has been completed for the Commissioners by Mr. Crashbunita. This survey must prove invaluable as a standard with which to compare figure surveys of the port, and as a guide in determining a future policy of Pert improvement.

Blider distressing the present condition of the Pert, or expressing any opinion as to what further staps.

I consider essential for its improvement, it will, I think, he destrable for me to give a brief historical sketch

of the Harborn of Dundalk, as far at have been able to tree it, from various determents at my dipposal.

MACKENZIE'S CHART, 1776.

The earliest chart of the bay of Dundalk, which I have seen in Marksmatch-Admirakty chart, dated 1776. It is interesting as being one of the earliest records of an official character, but for engineering purposes measures no value have and the pricings it affects of the novement of the navienchie channel to the verticated On this chart the channel of the Outer Harbour is marked by poles or perches. (Plan I.)

MUNICIPAL CORPORATIONS (IRELAND) COMMISSION, 1883.

From the evidence given before the Commissioners on Municipal Corporations (Ireland), in October, 1833, I find that up to that date there was no properly constituted harbour authority of Dendalk. The Earl of Reden, however, assumed the right of appointing a horhour master. This official levied certain rates on signature, and by the grant of his office was bound to membrain knows and perches out of these does Evidence was however given that the harbour was almost utterly neglected.

The Commissioners reported that the post was gradually rising in importance, and that a Board of Harbour Commissioners appointed under proper regulations seemed much wanted.

DUNDALK HARBOUR ACT. 1840.

In the year 1840, as Act for regulating, preserving, improving, and assistaining the river, port, and harbour of Dundalk was possed. Under it twenty-oven Commissioners were appointed to carry out the objects of the Act. Certain rates and duties were authorised, and power was given to borrow £120,000 to carry out the objects of the Act. The principal works contemplated were the construction of embankments and the reclamation of strand area in what is now called the liner Harbott.

Under this Art. 520,150 was borrowed between 1840 and 1855, and the embeakment from the coave at Dundalk to Soldier's Point on the south side of the river was constructed. The river channel was diverted, straightened and deepened between these points; buoys were placed in the channel, and mooring posts erected.

THE TYPEL HARROCH'S CORPUSSION, 1845.

In October, 1845, the Total Harbours Commission held an enquiry at Dundelk. The evidence is interessing as giving some idea of the excellence of the barbour at that date.

Mr. Byrns, Chells of the Burbour Communicaces, stated that the average moone was \$0.800 per anama.
In the part 1844, 118 vessels, representing 80,000 teas, arrived. The debt associated to £16,000 The
Parkinesates parroy had cost 1950s. I regress that I have now been able to find any trace of this survey.

It would have been useful to me in clearing up some doubts as to the exact mature of the works contemplated by the Act of 1840. Mr. Richard Needham, the resident engineer, detailed the improvements already made. He said that parts of the channel had been deepened from 5 to 8 feet. The embankment had out off 40 acres of strend 0.178

The depth of water over this averaged 6 feet at high water of spring tides. The rise of tide was 16 feet at the har and only 7 feet at the bridge. The channel was to he 150 feet wide at the quays, and 200 feet wide at the point. Steam dre-cost 5d, per cable yord. He had littled steff 4 feet on the har. The foundation was hard. Ser JKvall, under whose directors; the works were carried out, correlectated Mr. Kedham's critisines. Sir John and

expirined the great capability of improvement of the port of Dundalk. The har referred to by Mr. Needham was as chable the Ford Book, or the Minor har between Shell Island and Soldier's Point.

THE DUNDALK HARBOUR AND POST ACT, 1855.

In the year 1855 a Bill was introduced into Parliament remailing the Act of 1840. Among the principal objects of this Bill were the following :-

 To extend the limits of the port and harbour seaward to a line drawn from the extremity of Downsy Point on the south, to Cooley Point on the north, so as to bring the whole of Doudalk Bay within the jurisdiction of the Commissioners.

2. To authorise the Commissioners to deman, drame, seour, drette, regulate, famoure, manage, and

maigtain the port and harbour within these limits 3. Among the works contemplated by the Bill were the reclamation and embanking of hand within the entrance to the inner Harbow, at Soldier's Peint, and the stealghtening of the shanel these to Dundelle.

4. It was also proposed to run out to see from the mouth of the Inner Harborr two guide walls of embankanents, three subset in length, across the forestore, to fix the channel, and to reclum the last occupying the angular spaces formed by the said containments and the adjacent coast lines. (PLAN II.) Exchanation of sixend near was the principal feature of the SB. The Admirally is their report to Plan.

Reclamation of strain and was one principal conver or sensors. Les accounting a sensor space in the sensor in contemplation to reclaim 4,618 acces, of which 710 were inside Soldier's Point.

The Administry estimated that between 8 and 9 millions of eathly yards of water passed through the entrance at Sol Ser's Point four times daily, and that it the reclamation contemplated within the Inner Har-bour was permitted, the volume of water would be reduced by meanly 7 millions of online yards. Their lordships considered that such an encrosedment on the water of the Inner Harbour maght be fatal to it as a port, and olthough assent would be given by the redships no any further siminution of the tidal space within programs, no saccisen could be given by their bredships to any further siminution of the tidal space within Soldier's Point; on the other hand their lordships now no objection to the suclostre and recismation of the

two annular spaces of foreshore optside Soldier's Pount. Fortunately for the Port of Dundalk, the Crown, by section 63 of the Act, obtain the ownership of any land reclaimed from the sea outside the Inner Harbour. This section practically precluded the Harbour Commissioners from wasting their money in attempts to reclaim the North and South Bull strands. The Act also allowed the constitution of the Harbour Commission and unknown the number of Commissioners Boycowing powers to the amount of £49,000 were given in addition to any sums borrowed under the Act

of 1840, this practically giving the Commissioners power to borrow £70,000 on the credit of the mesons It is under this Act that the Commissioners at present exercise their powers for the maintenance and immovement of the Harbour of Dandalk.

THE ADMIRALTY SURVEY OF 1818.

The first survey of the Port and Harbour of Dundalk which is of our real value from an on point of view is the Admiralty survey made in 1858 by Captain Hoskyn, R.N. It was evalently under-taken by the Admiralty in view of the works proposed for the improvement of Dundalk Harbour under the powers of the Act of 1855. Although the low water datum to which the sometings are referred as not tightly defined, yet the chart is of considerable value in disturbing the changes which have since taken place, by comparance with Mr. Considerable survey. The levels of the strands in the lines and Harbours are very fully given, and prove that great accumulations of sand have taken place on the

North Bull and considerable slitting up in the linner Harborn and the same harborn and har on the state side of the chance mercur nervous we quays and consurer rotes. The guess was seen as the control of the Onter Harbour had not been begin, and the channel of the Onter Harbour sorted the desirable was still untrinsted. The hard solven memory the high-bone them in Mr. Croot-bounds werens the steady-bone them in Mr. Croot-bounds warren, with a depth of from 2 to 3 feet on it. The ruling depth of the channel up to Sodifie's Princip is one 2 to 5 feet at low water, while in the her holy werevand of the fighthbouse there in 7 to 8 feet on uear Shell Island, a hole with 19 feet at low water,

SIR JOHN RENNIE'S REPORT, 24TH JANUARY, 1862.

In October, 1861, the Harbour Communicative saked the late Sir John Rennie "to report upon a plan-fee the improvement of Dandalk Harbour submitted by Mr. Telford MacNell, and also to give a general opinson upon the inspervement of the soil harbour.

Opinson upon the inspervement of the soil harbour.

Opinson upon the inspervement of the soil harbour.

Opinson is a soil of the construction of certain guide sulface or unknowned to the north side of the large Harbour with the object of compelling the tidal water which flowed over these strands and the Ballymassanish estuary to pass through the Dundalk channel both on

the food and ohb tides. Sir John Rennie reported in January, 1862, that he considered the principle of Mr. MacNeill's plan good, and that it would be heneficial to the Harbour of Dundalk if properly current into effect.

CAPTAIN HOSKYN'S REPORT, 1863,

The Admiralty, whose consent was necessary for the works, referred these proposals to their Impector Captain Hosiays, who reported adversely, on the ground that affiling would take place behind the proposed cohenkments, and that the tidal capacity of the Inner Harbour would be thereby reduced. being paid to the suprevenent of the laner Harbour, and urging the removal of all impediments to the free ebb and flow of the tides. He also recommended the construction of training walls in the Outer Harhour to guide the tidal stream into the channel and, if possible, to fix the channel over the bar. The Admiralty having veroed Mr. MacNeill's proposals, putding further seems to have been done until January, 1864, when the late Mr. John Neville was asked "to report on the present state of the bar with the view of making immediate improvements open same."

Mrs. Navalan's Hupour or 1864.

In Mr. Neville's report of the 8th March, 1864, he submitted a scheme of port murrovement con-sizing of the construction of training walls on both sales of the changel of the Outer Harbour and the removal of certain sheals by drodging. These works are shown on his plan which is in the possession of Mr. Neville gave an estimate for these works amounting to £43,759. This sum was made up of the following items -

Stone training walls					£19,5
New dredge and hopper barges Dredging from the lighthouse to Soldie			 ***		12,0
Dredging from the lighthouse to Soldie	2'8	Point	 ***	100	18,7
Total					£43,2

A modification of the plan of 1864, including a considerable extension of the tesining walls, the annelson of the Board of Trade in 1870, last I have seen no estimate of these works (Plan III I learn from Mr. Cabill's reports that the construction of the tesiming walls was carried on tell 1881 when the walls were stopped. According to a return made by the Communicates to the Board of Trade in 1883, a rarm of £17,100 had been expended on those works, exchange of dredging plant. The training walls penain at the present time substrottally in the same condition as when this return was made in 1883, with the exemplen that the wall at the East Bunk was mased last year, as recommended by me.

Mr. Chosthwaite's Survey of 1805-96 (Plan IV.).

Mr. Crosthwaste's survey pisous the Harbour Commissioners for the first time in full possession of nonzeros information regarding the condition of their port. This information metudes a plan of the navigable channel from the query to the box, showing the position of the existing training walls, heacons, persists and huses; a complete set of measurement from the quart to the lighthouse, together with numerous diagrams of tidal observations. On the six inches to the suffe Ordnance map, Mr. Cresthwatte has shown the levels of the North and South Bull sands and soundings across the bor. Borings have also been made in the channel from the box to the quays. In addition, he has presented a valenble report to the Commissioners embedying the results of his observations.

Mr. Creathwaite very wisely adopted the Orthance low water as the detent to which to refer his countings and levels. This is of countries alle importance for the sake of future reference, as this sistem can cosily recovered by the sid of the numerous Ordnance bench marks in the neighbourhood of Dundalk.

The want of such a defeat in most of the early surveys of the harbour makes them of little value for the ригразе об соператион.

Is will assist the Commissioners in the complexation of this report it I give a beinf abstract of the principal facts established by Mr. Crostawaite's obscevations -1. Since the construction of the training walls of the Outer Harbon the North Bell wards have

extended considerably seawards. 9 In the same period the South Bull has extended seawards, but not to the same extent as the North Bull.

3. Vast accumulations of sand have taken place on the North Bull in the neighborshood of No. 4 Bencom and of the East Bank, since the construction of the cast training wall 4. There is evidence of rilting up of the strand between No. 7 Beacon and Toping's quay, by slit

brought down by the rivers and dredged material deposited behind the walls. 5. On the west side of the charged between Beaugus No. 2 and No. 5, there is evidence of the deposit of large quantities of dredged material behind the walls.

6. In the last thirty years the ber has moved further out, and there is no increase in the depth of 7. The maximum range of tides observed by Mr. Crosthwaits was 17 feet 2 meles and the

minimum rango 6 feet 4 inches. 8. The range of the tides at the highthouse and at the Rudway quay, is practically the sums.

I have endeavoured to place before the Commissioners a historical statement which will help them to form an idea of the rest history of their port, its gradual growth, the effects which have been made in the past for its improvement and the results which have been attained.

The question which appears to me of most importance is whether the Communicates would be warranted in proceeding on the same lines as have been followed during the last thirty years, and if not what course should be adopted; bearing in mind the monomity of improving the port for the purpose of retaining and if possible extending its trade, and at the same time beging as view the limited famile available. This I understand to be the reason why the Commissioners have cought my advantage.

I would beg to refer the Commissioners to the following extract from my preliminary report of the 29th May, 1895 :29th May, 1895 :29th grineral design of the training walls us the Outer Hasbour was laid out by the late Mr. John
4 The grineral design of the training walls us the Outer Hasbour was laid out by the late Mr. John
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5 The grineral design of the training walls us the Outer Hasbour was laid out by the late Mr. John Mr.

Nevalle's plan as far as the funds as his disposal permatted.

"In chemoting these works it is important to hear in mind the object for which they were designed,

possibility of miury to the harbour.

Up to the year 1864 the channel between Soldier's Point and the her was constantly changing in direction, width and depth. As an example of this, Captain Hoskyn mentions in his report that 'when direction, which and depth. For an example or once, capture freezen mentions in one report man when the present lighthouse was built in 1810 the channel was to the ensured of it, at the period of the Admirally survey in 1858 it was to the westward of the lighthouse, and is now (1863) again on the east side of it. Such, then, was the state of the channel as the time of Mr. Noville's report of March 8th, 1864. From this report it is quite clear that his alm was to regulate the paying the channel from the lighthouse to the Point, and fix the channel across the bar by means of guide wills and the sessionage

"Mr Neville was not very sanguine that the works would result in any very great increase of depth of water, for he says, "the horbour must always commin a tidal one"; but in criticising his deel gos it is only just to bear in mind that the shipping requirements of his day were very different to present

day requirements The rows which I expressed in my preliminary report as to the cificot of these walls have been fully confirmed by Mr. Creethwellto's survey. I regret to say that I have been ferred to the conclusion that the training walts, as designed and carried out, have been fujurious to the last interests of the Port of Demialic. They have led to the accumulation of vast quantities of sand on the North Bull, which form a constant mensor to the navigable channel, they have excluded an immense volume of tidal water from this channel

and have led to an outward movement of the bor, while, at the same time, they have not produced any increase of digits of water either in the channel or on the box.

It is gratifying, in the face of results so discounging, to be able to hear witness to the good results. If the graining, in the late of results or unconverging, to the low own waters not not possible which have been extended by the defending operations carried one by the Commissioner. Mr. Covethwaint's observations prove condustrely that the range of the sides at the lighthouse and at the Railway quay are more procified by the same whereas 30 years ago the many at the quays was very much less than as the lighthouse. This change is undoubtedly due to the removal of shoule by dredging, and hav been accompanied

by the admission of an additional volume of total water into the Inner Harbons It is a matter of rignet that some of the advantages goined by dealiging have been nentsalized by the deposit of the deadged material behind the training walls or clse in situations where the food tide has a tendency to wash at back into the barbour or on to the strainle. At no great distance from the lighthouse there are sites in which an almost unlimited quantity of dredged material could be denosited without the

FINANCIAL POSITION OF THE COMMISSIONESS.

From the information kindly placed at my disposal by your late Chairman, Mr. Patteson, 1 understand that the loans due by the harbour in 1890 have been consolidated into a loan of £35,000, on which interest at the rate of 33 per cent, per annum, amounting to £1,225, is to be pard. After repayment of the loan to the Board of Public Works, and also the dehenture debt, it is contrasted that there will be a sum of about £10,000 at the disposal of the Commissioners.

among a most fraction of the organic or see Commissioners.

According to a return which has also been havided to me of the reeripts and dishursements for the three years ended 31st December, 1886, it appears that continues of interest on loans, expanditure on the Outer Harbour works, and designer and survey exposes their was an annual certific behaves of 48,493. If

from this we desired the interest on the new loon, namely \$1,235, there remains a net average suppol halance of £3,168. If the 21,000 surplus capital be not refeed, or if it can be reinvested at 3½ per cent, a further sum of £350 would be available annually, making the balance to credit available for improvements

£3,518. I am very strongly of opinion that the Commissioners should for the present limit their anomal expenditure on works for the improvement of the Outer Harbour to this sum, and if possible to keep

the £10,000 in reserve for future contingences. From what I have already said, it will be clear to the Commissioners that I am not prepared to recommend the actions of the existing training walls. It may, however, be a satisfaction to them if I give an approximate estimate of the cost of completing these walls in accordance with Mr. Nerviller plant. of the year 1870.

In Mr. Naville's report of March Sth. 1864, he estimated the cost of the guide walls then proposed and shown on his plan No 4 as \$12,500. The length of walls shown on this plan was about 13,600 feet. The cost was therefore estimated at about £1 per foot. In his plan of 1870 sent to the Board of Trade, the cont was inference enamened in income As you come, and may place to wards the lart, with a new lighthouse at its extremity. The west wall is shown extending 3,000 feet seaward of No. 2 Bosson where it now terminates. and the gap in the cast wall between No. 4 Beacon and the Rock Beacon, 3,000 feet in length, is closed. So that to complete the wall as proposed by Mr. Noville, about 10,000 feet of wall, as a cost of 2,0,000, weather to be held, and a now dighthous constructed as a probable cost of £6,000. It has making a total cost of £6,000. This making a total cost of £6,000 accessors of dredging. I am, however, of opinion that this estimate, based on Mr. Novilles garden. is altogether too low, considering the greater exposure and depth of water in which these walls would have to be constructed than those already made. These works would absorb a large putton of the Commissioner's funds in the walls alone, and I could not hold out any loopes that slary would benefit the port in the

I have no besitetion in saying that a system of walls could still be constructed which would materially have no negative in saying that a system or want count and account of the contract water may improve the entrance to the port across the har, har I fear very little improvement could be expected in the channel between the lighthouse and Soldier's Point by this means, unless accompanied by the removal of a confiderable length of the walls already contracted Any such proposals would prove runnersly expensive, and I have been ferred to fall hask on droiging as the only françaisly possible expedient for extricating the past from its present very critical position.

I estimate that for coch foot of additional depth in the channel from the box to Saldier's Pomp, 500,000 tens must be deedged. I find that the Commissioners have only dredged 179,388 tens in the four years ending 31st December, 1895, or an average of 44,847 tens per assume. From the published seconds I estimate this dredging has cost on the average .61,595 per annum, or 844, per ton.

In making this estimate I have charged the tog to dredging, and medited the account with the excessing from towage. This I consider a proper course, as the tog is essential for the towage of the bonners, and would hardly otherwise be maintained for the small amount of toware done for

I think it will be evident from the foregains figures that the quantity which has been disslored in the ners is quite insufficient to produce any very marked improvement. In last, as long as the North Bull

cands were passing over the east teaming wall and forming the East Bank, the amount taken out of the channel by dredging did not, I kelieve, equal the quantity of sand coming into the harbon

sometimes of measurements and a families and a generate of next country into self Bill 2007. On the legistry, the best, percept vision that weather it acceptorable fire. Modern explications placed as on this post appliance coupled of reserving send banks in expect positions at a compensatively small cost, and emable and to induce the confidence of the m to the sand pump or suction dredger that we must look for the improvement of the approach to Dundaik Harbour. The success which has followed its operations on the Mersey bar is probably well known to

the Commissioners.

Is her bern equally an angul in the construction of the new approach to Rotterdam and in improving the entrances of Octon's, Dunkerque and Calais, as well as many Colonial poets. From the information dredged annually there could be increased six or seven fold without exceeding the surplus revenue at the desposal of the Commissioners. I have given much consideration to the question as to the best manner of endertaking this work. There seem three contres open to the Commissioners:-

1. They can purchase plant and carry on the work themselves.

2. The can hire plant and carry on the dredging with their own staff , or,

3 They can enter into a contract with an experienced contractor to carry out the work The first proposal would involve the expenditure of about £7,000 in the purchase of plant, and marrying on

the work with men inexperienced in suction dredging. The second proposal would necessitate a considerable expenditure in hire and insurance, and the Commissioners would have the same difficulty of working with

mexperienced crews. The third proposal would enable them to enter into negotiations with contractors who would provide erritable plant and experienced men. I am in favour of the latter proposal, and would recommend the Commissioners to enter into an erimental contract for the removal of a limited number of torn from the bar. By this memos any doubts will be settled as to the possibility of send pumping at Dandelk, and both the contractor and the Commissioners

will obtain information, which will settle whether the price of a subsequent contract can be reduced, or whether it will be more economical to do the work departmentally with the Commissioners' own plant. THE BAR BUOTS AND LEADING LIGHTS.

(Play IV.)

The most remarkable feature brought to light by Mr. Grosthwaite's survey, is the difference in the estion of the deepest tha mel across the bar, from what is shown on the most recent Admiralty thart of Southelf of the component training could be seen as the contraction when it does not not be overly if by pensoral important, and interviews with some of the mest expendenced scarces connected with the Peri of Donald Accordingly, I went to Dundalds on the averaging of March 2014, and improved the Outer Interview with some of the mest expendenced scarces connected with the Peri of Dundald Accordingly, I went to Dundalds on the averaging of March 2014, and improved the Outer Interview only on the Contraction of the Contract morning of the Sist, in company with Mr. Crosthwalle. There was an exceptionally low tide, so that I had a good opportunity of comparing from the lighthouse the varying levels of the strands with the levels given by Mr. Cronthweife. I had the advantage of proceeding in the Commissioners' tog as far as the middle bar busy in company with your harbour master, Captern Hughes, together with one of the senior pilote, Mr. Ferguson, and Captain Lynch, who trades regularly into the pert, and who had been asked to see the follow, our each of throe gentlemen I am indabted for much reliable information and knudly assistance. From them I received complete confirmation that the deepest water entering the harbour is on a gourse leading from the present position of the middle har know to the wreck heavy, at the west side of the channel, opposite the lighthouse, as shown on the Corchwides energy, as one wreer may, as one well not on the channe, appoints be light-house, as shown on the Corchwides energy, and not in a direction fedicated by the tending hight. These lights were, I understand, ercorde in 1803, and at that time the middle but how was, as shown on the Admirably chart, should 2,000 feet north east from the present possible. If was told that the bony was skelend sider the leading lights were file but on this point I did not get vary explicit information. I believe that the range of the leading lights and the position of the tory on the Adarrally chart singly define what was the best channel in 1895, but I cannot hollow that the channel was in this position in 1895, and has in three years shifted some 2,200 feet to the westward.

I hebeve that the movement of the channel to the westward has been guadual, and that the leading lights The position of the inner har busy was also brought under my notice. As at present placed, it is of little or no use, but if moved sufficiently to the westward, it would be useful in griding vessels alone of the lighthouse bank. It was also pointed out that if the wreck busy at the west side of the estraine we converted into a completions channel book, it would be of great assistance to senance. I had the advances of seeing the Dundalk and Liverpool publicatemere "Enterprise" opening in on the food tide and noting the correct taken; we also followed in her wales up to the quay, when I had an interview with Captain Williams, who

confirmed the foregoing observations in tagard to the knoys and leading lights. In the evening I had another opportunity of impacting the harbour, when the lights were lit. We left the gusy at 9.30 p m. in the tug, and prospected to the middle har busy, thence on a morth-east occurse, until the range of the leading lights was reached, thus repeating our morning course and confirming our charrentson by the sid of the lights.

I should like to bring under the notice of the Commissioners what seems to be a defect in the

distribution of the light exhibited from the lighthouse. Vessels entering by the proper comme from the middle har hang are in the bearing in which the light is marked "not visible" on the chart. I had the opper unity of confirming this on the evening of the 13th of March, for dishough reflected light from the opport any of comming has a several of the light as a flowing light was desired in a bearing, in which it should be unmissionable. The explanation I think is clear. The distribution of the light was arranged should be unministabable. The explanation I think is clear. The distribution of the light was arranged when the entrance channel to the harbour was east of the light, and a vasual entering did not less than white flashing light. No alteration has since been made in the light, although the channel has shifted to

The simplest remedy is to extend the are through which the present red fieth is seen over the are in which the light is now marked "not visible." It appears to me that a red finth would be as small a protection to vessels in cleaning Dunney roofs as the present arrangement, and at the same time it would be a distinct gain to vessels entering the harbour. This is, however, a master enterity in the hands of the brish Lights Commissioners, but I think that if they were aware of the alternations which have taken place from approach to Dundall Harbour, they would see the force of these suggestions. Their controls that obtained to the obtained to the shere that of the beating this as soon as possible, so compliance with section 553 of the Merchant Shipping Act, 1894.

It would be of advantage, when creating the new leading lights, to place them in such positions that they could be lit by the man attending to the river lights. If the other leading light was placed on No. 2 Season, and the inner light on the spur adjoining No. 3 Beacon, this object would be obtained and lead to eccentry. It would also be an advantage to make the inner leading light 10 or 15 feet higher than the outer light

to identify it more readily.

Should the Commissioners decide on improving the busyage of the har, it would be well for them to conarity the propriety of adopting the uniform international system recommended by the Lighthouse Authorithis, and very generally adopted by the leading ports, namely, fist-topped can buye, coloured black, on the port hard, and conteal buyes, coloured rest, on the starboard hand entering the harbour. The red lights on Channel beacons should also he on the starboard hand entering the port.

RECOUNTENDATIONS.

I beg to close my report with the following summery of the recommendations contained in it:-1. That no further extensions of the training walks be sanctioned, but that may stone at present in the sension of the Commissioners he received for the purpose of raising the wall at the East Bank in case it is again covered with sand from the North Bull.

That the Commissioner's endower to enter into an experimental footness for deepening the channel across the bor by sand pumping with an experienced firm, who here plant for the purposs. The negotiations for such a contract could searcely be completed in true for beginning work this year, but everything mich be completed so as to begin operatores som garleg,

The arrangement of unch a contract will, of course, involve very careful counteration, and its execution will manuscripts rigitars supervision on behalf of the Commissioners to avoid wasteful expanditure. To value accessions regards supervised on season of one Commissioners about the season expansions. To judge of the results of such deedging operations, the Commissioners about the furnished by their Engineer with periodical surveys of the bar channel, so that they may be able to judge of the progress

3. That the Commissioners' steam dredger be employed this summer dredging in the channel, between sections No. 72 and No. 89 of Mr. Crouthrantic's survey, for the purpose of streightesting and widening the channel between these points, and to remove the shock-ground left behind the dredger line year. These shouls are clearly shown on the plan and should be despened to at least four feet below distrin-

4. The depositing of the dradged material within the harbour should be abulately forbidden, and bopper berger should be towed out into the bay so as to discharge in not less than five fathors at low

5. That reports he obtained from your Harbour Master, and from the most experienced pilots and captains frequenting the port, on the proposals I have made respecting the lights and knows, and if these meet with shelr approval that application be made to the Irish Lights Commissioners for nermission to have them corried

into edet as soon as possible. As soon as these matters have been arranged I would recommend that a copy of Mr. Crosthwaita's survey be sent to the Hydrographer of the Admiralty is order that the official charts and stilling directions

Although I must admit that the approach to the Harbour of Dundalk is at present in a very critical condition, yet I believe, if the Commontoners proceed on the lices which I have pointed out, Dendalk may before long take a very important position among Irish ports.

I have to acknowledge my indebtedness to your officers for the kindly assistance thay have given me, and also to your late Chairman, Mr. Patteron, for obtaining for me, from time to time, information I needed. In addition to the four plans attached to this rapert, I beg to send, for the information of the Commissioners, the following plans, maps and charact-

1. A general plan of the Port of Dundalk at a scale of four inches to the mile, showing the levels of the strands from Mr. Crosthwaite's survey and the depths in the bay from the Admiralty chart. 2. A copy of Mr. Crosthwaite's survey of the channel, but, and strends on the six inches to the miles

Ordnance maps of the port. The latest Admirality chart of Dundalk Bay, showing the leading lights, the distribution of the light as exhibited from the lighthouse, and the middle har buoy in its old position.

4. A traving of Mr. Crosthwaite's onlarged plus, on which I have marked the channel, which I recommend the Commissioners to ent through the her.

> I have the honour to be, Gentlemen, your obedient servant, JOHN PURSER GREEFITH, M.INST.C.E., AND M.INST.C.E.L.

SELECT COMMITTEE ON TRANSPORT (ERISH SUB-COMMITTEE). DUNDALK HARBOUR.

(c) -TO THE HARBOUR COMMISSIONERS, DUNDALK

Rathmines Castle, Dublin. GENTLEMAN. Oxfolor 18th, 1906. In compliance with the request conveyed through your Secretary, Mr. J. P. Farrell, I have again expending consistered the condition of Dundaik Harbour, with the object of advising you as to the steps which should be taken for its improvement. I have had the benefit of bearing the views of several of the Commissioners, and of obtaining information from your Secretary and Engineer as to the present condition

on the lat of May, 1895 The Commissioners are, I believe, acquainted with my report of that date, and of the recommendations contained in it. It may, however, be well to give the following summers of these recommendations:-1. That no further extensions of the training walls be sanctioned

2. That an experimental contract be entered into for sand pump dredging. 3. That the Commissioners' bucket-dredger be employed in straightening and widening certain-

portions of the channel specified in the report. 4. That the deposit of dredged material within the harbour be forbidden 5. That certain defects in the lights of the harbour, as discovered by Mr. Crosthwaite's survey, be

remedied. I understand that the three lest recommendations have been carried out; but it is with the greatest regret that I find that the first recommendation, "that no further extension of the training walls be

sanctioned," has not only been disregarded, but that about £3,000 has been expended in extending the training walls. In regard to the second recommendation, relating to anotion-dealgoing, no real staps were From the information I have recoved, I believe that the condition of Dunchile Harbour is to my the

least, no better than it was ten years ago. The Commissioners will readily understand that, in consequence of the most important of my recommendations not having been carried out, I have felt considerable healtstion in reporting again on this anbicot. Bring, however, withful to assist the Commissioners to the best of my power, I have very carefully

considered the present condition of affairs in your harbour. I have come to the concitinon that the only present for improvement depends on the vigorous destigning of the channel. I have already on several occasions advised

That all effects should be concentrated in making a channel from the buy to the gasque of enforced depth to allow resects empaged on the counting track to enter and leave the part at all states of the take. I estimate that each additional foot in depth of the channel from Dundalk Bar to the oneys will require about 750,000 test to de dredged; and to early obt this programme, of a port to open at all about 7,000,000 test to de dredged; and to early obt this programme, of a port to the rect to the coasting trade, about 7,200,000 tests must be dredged. As foregrame per test that would represent £210,000. In addition, to the above, £20,000 would be required for plant and appliances. The first question that armes is, Con such a programme be faced with the Commissioners existing

dredging plant?
The Commissioners' dredging plant consists of a broket-dredger, four hopper barges, and tag. They have done useful work, and at the time of construction were considered up to date. Unfortunately the output of dredged material has been restricted by the limited funds at the disposal of the Commissioners, Unfortunately the the period during which the plant is worked being only a fraction of the year, and the number of hours worked per day being limited by the shallowness of the channel.

The quantity diedged by the Commissionen' plant during the last ten years has averaged 58,000 tons per annua, and cost about eightpusses halfpenny per ten. This is costly, as it does not include any charge for interest, dependence, or scaling fund. The dredging done has in my splines barely manifolded the harbour; and if the harbour is so be improved, the quantity dredged must be greatly increased. Fortunately there are considerable periods of the barbour so the barbour so the barbour whon may be dealt with the sortion-dredging: and on this system of dredging I believe the Commissioners must depend for much of the future improve-

It is satisfactory that the Commissioners were able this summer to early out my suggestion of last I have now received the reports of the Master of the dredeer, and also a report of my son.

Frederick P. Griffith, B.A., R.A.L., who was in Dundalk throughout the period during which the dredgor Experiments were made with the drodger on the Bay, the East Bank, at Number 5 Perch, at "The

Hard," the entrance to Ballymascanian River, and opposite the Steam Parket Quay. In all these places it was proved that the material could be removed by section-dredging, and no greater difficulties were encountered that have been met with in Dublin.

on the Bir the naterial was thus said overlying a layer of elge. On the East Bink, which has been formed by and brought over the training wall, the naterial rescalided that on the Bar, but was naterially escenebled that on the Bar, but was naterially escenebled that on the Bar, but was naterially escenebled to devide, being of croent formation. At Number 5 Ferch the material devidgod was mostly gravel, and have again day was not with underlying the gravel. The result of the experiments on "The Hamil" was remarkable. He have looked a place difficult of the property of "The Lind" with reinfalkeder. Lee pose use arrange games an innertance problem, part extension of the control o consisting principally of large and small graved and shells. In fact, the rate of filling the kepper exceeded that at any other place where the vessel was tried as Dundalk, receiling 2-44 ters per minute. The material found near the nouth of the Blavenscoulas River was similar to that of the Blav with, however. a mixture of alluvial matter. At the Steam Packet Quay the material was chiefly mud, overlying day, 0.178

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The experiments were carried out with and without larges, and demonstrated that for Dundalk it is desirable to have large hopper capacity in order to give the material time to deposit. As regards the desirable to have large hopper espectly in order to give the instance time to opposit, an expense are diredging of the Inner Harbour, it seems clear that arrangements should be made for pumping the material ashore. Indied, now that almost all advantage to be derived from the tidal score of the water flowing from assorts. Indicated, now was almost an introduce of the North Bull into the horse has been lost, owing to the resent extension of the training walls, it may possibly prove economical to pump the said from the channel of a persion of the Outer Harbour over possersy prove economics to pump one sent from the content of a parameter father or senting wall, and thus save the cost of, and the delay consequent on, senting the sand out to sea in houser burges. Dundalk is at present spending out of revenue about £2,000 per annum in dredging 58,000 tens. This

countity might be increased by economical management; hot even if this were done, the present plant of the commissioners is quite immificient for the monds of the Port. If the Commissioners decided to aprend the work of the construction of the chancel which I have suggested over a period of twenty years, it would be necessary to divelge about 360,000 tons per assum at an annual expenditure of about 26,000. Even if the our of £2,000 was suff drawn from revenue, a further sum of £4,000 per annum would have to be provided. As this would be distinctly for a work of improvement, it might resecuably be paid out of capital.

As now women on manuscry for A work on improvement, in might recoverancy or part out of capitals.

How the mercanizy funds can be provided in obviously a question of the greatest importance. The total compilal to be raised for this work would be about \$100,000. This would be borrowed as required, and the inherest and unking fund should probably not accord 45 per cent.

I have no doubt that as increased fashines are given in Dandalk Harbour, the number and tennage of

vessels entering the Pert would increase, and the revenue of the harbour expand. But in the first instance I thank funds should be raised on a town or county guarantee. thank runds should be rensed on a town or county granuates. Aftern can be no doubt like the improvement of the Pent would be benefitted to the surrounding district, and expectally to the town of Dandalk; and I do not see why they should not guarantee the interest and sraking fund of the necessary lean, as has been done elsewhere. A Marine Works Bill for Harbours on the east coast of Ireland is in contemplation, and Dandalk might

possibly participate in its advantages. possing participate in its divinition.

The only way to gain additional revenue for the Port of Dundalk is by offering facilities and inducements for additional result to come to the Port. No greater inducement can be given than a lafe and open channel. For the maintenance of a passenger, goods, and cattle service with cross-Channel ports, fixed boarsallings are becoming oversial; and without such fixed-hour sallings Dunbalk cannot compute with Belfast,
Dubin, or Greeners for this trade.

Dummi, or vinesture for self firms.

I would therefore very consestly press the Commissioners to face the difficulties connected with the importance of Dandall Hartour. The only hope is the adoption of a vigorous policy, coupled with vigilant and esonomical engineering. Whether his divelging of a domainal such as I have proposed to earted out by emtract or by the Communicators' own plant and workmen it will require close supervision on behalf of the Communications, and the amployment of a skilled marine surveyer, so that the Commissions may be fully informed of the progress of the work, and monthly surveys made. I may say that personally I favour

> I remain, Contlemen, your obadient servant JOHN P. GRIFFITH.

APPENDIX No. 20.

PROPOSARS for the Improvement of Dundalk, transmitted by the Secretary to the Dundalk Harbour Commissioners after Kvalence given on 26th September, 1918, by Mr Thessu Callus Manuell, J.P., D.L. a number of the Harbour Board.

DUNDALK HARBOUR COMMISSION.

Dundalls, October 9th, 1918.

PROPOSALS FOR THE IMPROVEMENT OF DUNDALK HARBOUR, Having obtained furnier estimates as to the probable cost of the works proposed in our statement to the Germittee for the improvement of Duminik Harbour we have come to the excelution that the following

(1) For dradging the channel from the har to the quays to a depth of 4 feet, say 2,000,000 tons (1) For carcoging to determet root on airs to use quary so a nepse or a 1605, 187 XUGUOU 1605 of material at 65 per 100, 650,000. This figure is lossed on the Banal's proposal their, second that it hosessary divelging plant be lent by the Government irse of any sharps for hire.
(2) For the purchase of the quays, pflins, and extension of the front or as to leave a minimum width of 60 feet along the quays, the laying of additional limes, of radius, provision of creases,

whilst of 60 feet sizing the query, the laying of solutions may be realway, previous of classes, machanical healage for sequence and other mechanical course, required £100,000 at a maximum of 6 per cent, for interest and Sinking Fund. Annual charge £6,000. (Signed) THOMAS COUNTRY, Secretary.

APPENDIX No 31.

STATEMENT transmitted by Mr. Choiles McKeess, Chairman of Meath Farmers' Association, relative to railway communication between Kells and Mullingur for the purpose of giving direct access to the Port

To the Chairman and Committee of enquire in regard to Inland Transport.

Sir Arthur Shirloy Benn, M.F., and Gratismon of the Committee.

As Chairman of the Meath Farmers' Association I wish to impress on your Committee the very great named in the formulation in the portion of the County Meath which would be served by the proposed Kells to Mullinger reliway, which was brought under your natice at your recent enquiry in

Drogheds.

On the conscious when this exheme was previously brought forward it received the unsurmous support of the farmers and traders in the district which it was proposed to serve. At those periods such a line of raffway would have been a great benefit and a great convenience to

those districts, but now it is an absolute accessing. Up to the time of the possing of the computery tillage orders, tillage in most parts of County Meath was of very result extent, and therefore did not cateful must transport, but matter the aftered errormatement more prevailing, whereby large landsholders are compalled to cultivate up to 20% of their amble lands, a speedy and efficient means of transport caunot be done without, if tillage is to be successfully carried out, Large quantities of seeds, manures, and up-to-date farming if tillage is to be successfully carried out. Large quantities of secon, manurer, and up-to-now securing machinery will require to be imported, and the considerable amount of grain, etc., which the lands mader

cultivation will produce, will require to be exported. I respectfully submit for your consideration that if the landbolders have to convey these various commodities in and out, by the present slow and expensive system of cartage, over long distances they will commontors in som use, by our present to the column in a manner either profitable to themselves or of benefit to the community at large. The very small labour supply available in the thinly populated areas through which the proposed line of railway would run will have more than sufficient work to do on the

lands without spending a very large portion of their time carting materials long distances. The benefits to the live stock influency which were sarply proved in previous caquistes with regard to the proposed line apply with much greater weight now. The largely increased value of such stock will considerably add to apply with much greater weight now. The largely increased value of such stock will considerably said to the then estimated monetary value of deterioration of stock consequent on long walking to and from the then communed momentry varies of determination of special consequent on long walking to and from existing reliways. It will also no doubt be apparent to your Committee that the absormal wasts of energy, especially now with increased cost of coal, labour, etc., required in the scoveying of live stock by circuitous In constanton I wish to say that I have never known a scheme for the mornation of which makin fonds

have been saked to show such an apparent immediate benefit to the districts proposed to be served and the community at large as the proposed Kells to Mulimpar Radway connection. The suggested improvements to the Port of Drophola, whereby a more efficient gross-Champel service might be maintained and the traffic handled in a satisfactory manner, would be of immense benefit to all the autrounding districts CHARLES MCKENNA

APPENDIX No. 39.

Statements and Notes (Ten in number, lettered a) to (j) inclusive) relate to Calway as a Steam Traviling Port; the expenditure on Marine Works by the department of Agriculture and Technical Instruction among two two experiments of the condition of Fishery Harborns; the number of fishing botts in we; the quantities of Fish landed, the dates of Herring Fishing Seasons; and particulars of Dredging Fish landed in by W. L. Holf, Chief Inspector of Fisherses Department of Agriculture and Technical Instructions for Ireland during his examination on 27th September, 1918, or subscoperativ transmitted by him.

(e) GALWAY AS A STRAM TRAVELING PORT AND PORT OF EXPORT FOR CUEED MACKEREL AND HERRING.

I am assuming that Sir John Griffith has put the Sub-Committee in possession of his views as to the providing of providing for the above devalopments, should they be preschable. The scheme, I understand, provides for a berbown at 61-bins, until all for Transationics vessels of the largost desse with a corner availate. as a home of steam trawlers, with all its messaary shore appearance of engineering and tackle making abous, ice plant or stores, fuel stores, and the like, and with provisors for passing that through to English morbits

without handling or transbipment stations, because no resemble person affects to believe that Ireland can absorb the product of a large steam traviling enterprise. The question seems to depend upon whether the requisite facilities can be provided at a figure which

could compete with the cost of at most three days sea time of a trawler from and to Milford or Flortwood

On this point I am unable to offer an outrigu, for it sector to depend on the rates at which the Midland Gress Western Railway, the cross-Channel service and the English and Weish reilways to market centres might find it worth while to convey fish. I observe, however, that there are productive trawling or comits of north and north-west and on the seath and off the south and south-west of Ireland which might profitably occupy hours from England and Wales on their voyages to and from any grounds which are less gerenancy decays come from Engance have reason as the record out seemer or later, and in so far as concerns the hake grounds off the Teanight, I helieve at well be sooner rather than later. Then, however, cois both ways, as I suppose these same grounds would be relied upon as a soft thing for hoats working from

The matter really resolves Reelf into a consideration of whether the off shore trawling grounds which are materially nearer to Galway than to any British port, g ve promise of supporting a trawing enterprise commensurate to the necessary capital expenditure. As to this, the only available oridence is derived from the statistics of trawling from English and Welsh ports, and these deal with operations on practically virgin arounds, which have visibled a cutch which cannot be committed as continuously available. Assuming that the records deal only with the area to which they are allosted and take no account of fishing an reate, there is we discuss that the off-done grounds measure to Glavey based with class a boldbase of that gas were considered for the off-done grounds measure to Glavey based with one of ground living to 14 beats working for 12 months, or 38 houts weaking for 6 months, a period more minable for flating for grounds. Then 15 mills he, an indicator to the own in the based weaking for 6 months, a period more minable for flating for grounds. Then 15 mills he, an indicator to the own in the survey of data has been manufally thinned, with highly which I lake lower to regard a fith usage professed of matter grounds and the support of creater provided and the survey of the su very extensive in area, when one considers depth, deslivities and nature of bottom, and I express my personal

opinion that they are incapable of continuously austaining a sarge trawing enterprise.

No doubt suitable traffic and fuel provision would be availed of by British trawlers to leaven boming expenses when they may be working the western Irish grounds, but that is a different matter from the

As to exred mackerel and herring (in so far as the latter are or may be in demand in America), re-coult the establishment of Transatismto traffic from Galway coupled with a proper constwine service thereto 0.178

would state or need that do to state the defend at any port, of cargo for engal bringge reforming to Liverpool. As to herring, it can effer no quade us to post war cappe for engal bringge reforming to Chery would be the most conditionate out the conception.

(8)—STATEMENT OF MARINE WORKS CARRIED OUT BY DEPARTMENT OR TOWARDS THE COST OF WHICH THEY CONTRIBUTED.

COUNTY LONDONDERRY.

Pastalement, 1911-12.—Improvement of harbour—Cost unknown; work carried out by Board of Works with the aid of contributions from See Fasheries (£100) and County Council.

COUNTY ANTRIM.

Ballyandt, 1903.—Improvement of harborn. Work carried out by County Council etch the slid of the contribution of 277 by St. Haberon.

Ballik.—Improvement of harbors and boot-slip. Cost £5,921, viz.: Agricultural Endowment £3,171,
County Council Edds. Barlingers and excisp harborn. Cost £2,401, viz.: Sas Fisheries £1,458,
County Council 463. Barlingers Commissioner £504.

COUNTY DOWN.

Prolafory, 1900.—Beat-dip. Cost £440, vis.: Sas Fisheries £147, County Council £195. Work does by Cosmy Council.

Engreement of Indoor. Cost £283, vis. Sas Fisheries £150, Councy Council £448. Work does by Councy Council, who appear to have does some further scall work at where one

expensos — Killed, 1914—18.—Ingrovernens of barbour and construction of inner basin. Estimate £23,000, vis—
Sas Fisheries £2,200, County Countl £1,800, Devdopment Countissioners £20,000. Probable total cost, £20,000.

Denney, 1918.—Work designed to keep the harhour from filling up with gravel. Cost £498, viz.: Son Fisherice £498, County Counti £5:00.

Assaysman, 1918-1917.—Improvement of harbour and approaches. Cost £8,007, viz.. Son Fisherice £3,307, Agricultural Endowment £3,125, County Council £1,120.

Satherices, 1906-4. For and sign. Entimate £500. Cost £494. County Council contributed £159

UNITY DUNG

Bibliogon, 1903-18 Inspecting and deciging harbour. Cost £1,740, via. Sea Fisheries £7, Leel 4723. Leel 4723. Leel 4724. Research 1965-6. Restance of Fire. Resimate £5.000: social one universe miscore. Most carried and

Longklahenny, 1805-6. Extension of Pier. Betimate £5,000; actual cost unknown. Work carried out by Counter Council with the air of £1,000 from See Fisheror.
Maiskale, 1912-13. Step for small beats. Cost £116. See Fisheries. £15 spent on uninor repairs in 1917.

COUNTY WIGHTOW.

Addison, 1807-18.—Despoting since and making inner begin with meant align. Cons. 84,000, Ireland. Development from: Under an agreement with Mosen. Kaymod, Arkhow, the hatth has been extended as their experses so as to compensate for the continuous use of a part of it by their marietien steamers. Manutements developing of a larkner cost in layer terms of 30,000 up to December, 1910.

COUNTY WEXFORD.

Courieses, 1904-12.—A number of small works, deading extrance and reconstructing dock entrance and shares. Total cost £1,355, viz.:—Sea Fisherite £249, County County £484, Development Control of the Parties £1,350, viz.: Sea Fisherite £249, County County £1,000, Parties £1,819, County £1,000, Viz.: Sea Fisheries £1,00

Commit #1,160.

Kilmen, 1908-7.—Estimata £1,000, cost miknown. The work, which consisted chiefly in folining up the
"Sidnal break-water" with she sheet, curried out by the Commit with the skid of a constribution of £500 from
the San Palentine. 1912, deeling uses £161, via. San Fabriera £263, Constr. Ottomel £250, Deerogment

Commissioners 2849.

Salot, 1901.—Inner hreak-water, £107 paid by County Council and £107 from Sea Fisheries Fund.

Salot, 1904.—15.—Improvement of harbour accommodation. Total cost £1,134 16s. 10s. County
Council £456, Development Commissioners 2500, and Department £174 16s. 10s.

COUNTY WATERPORD.

Passage Bad, 1967-8.—Improvement of harbour. Cost £5,672, viz. ; Son Fisherica £2,900, County Carried £2,500 (Sond of Works £3,472. Work scared on 2 yt to Board of Works.

France, 1955.—discontrousing a cutood jet. Cost £4,650, viz. 185 Fisherica £2,645, County Mories.

Funders. Crost, 1968.—Lauroving approach and landing accommodation. Cost £116, viz., Son Fisherica £2,645, County Count £4,640.

Billingsopd, 1903.—Charting out barbour. Cond. 2577, vin.: San Thinterin 4.118, Compt. Council, 4.117.
Arthone, 1904.—Outs, in its on issure, 4.530, vii. San Fiberine 4.118, Compt. Council, 2.117.
Arthone, 1904.—Outs, in its on issure, 4.530, vii. San Fiberine 4.1,244, County Council 2.000.
Barri of Works, 4596. Work carried one by Board of Works.
Holoit, 1914.—S. Contractation of plar and beadware. Estimates 4.01,000, viz.: Courny Council
4.5000 and Development Cagministences 419,000. Expenditure to date 528,000. Estimated amount required to finite work, ap 45,000.

THE FOLLOWING WORKS ARE NOW SITUATED IN CONGESTED DISTRICTS:

. ČOUNTY CORK.

Advissis, 1907.—Com about £1,300. Department contributed £400 from Sex Fisheries and £800 from
Agricultural Budoverson. Work corried out by Orogonodal Diacries Board.

Emisy, 1909-10.—Classing bertbage at old pire. Com £245, viz. Agricultural Endoverson £145,
Contro Cornell Endoverson.

COUNTY KERRY.

Minord, 1995.—Boat-slip. Cost £104, viz.: Son Fisheries £233, County Council £233.

Fisheries £2,000, viz.: Son Fisheries £1,000, Board of Works.

Works £0,000. Work surried out by Board of Works.

COUNTY LIMES

Foyass, 1908.—Ropairs to harhour. Cost £000, viz.: Sea Fisherics £450, Agricultural Endowment £450, Poyassabas, 1905.—Boconstruction of quay. Cost £000, viz.: Agricultural Endowment £300, County domail £500. Work carried out by County County.

COUNTY CLARG.

Hodwinn, 1908-11.—Improvement of landing accommedation. Cost £452, vin. 8 to Fiberion £462, Costs Costs & Costs. 2 to Fiberion £462, Costs Costs & Costs. 2 to Fiberion £462, Costs Costs & Fiberion £462, Vin. Aprilation £464, Costs & Fiberion £462, Costs & Fiberion £462, Vin. Aprilation £464, Costs & Fiberion £462, Costs & Fiberion £462

COUNTY GALWAY.

- Electronic, 1911-12.—Recognitivation of quay. Cost.6211, viz., Sea Fisheries £151, County Council £60.

Someon Dearner

Basense, 1910-13.—Improvement of harbon. Cor. \$4,021, vo. Soc. Fatheries £1,377, Agricultural Basinerann 4,160, Contry Control \$4,350, Congested Districts Seard £225.

Bibliothesis and £1057.—Did ging a: pire. Enhances. Department contributed £50 from Soc. Pipheries and £100 from Agricultural Enforcement.

IN ADDITION TO THE FOREGOING, EXPENDITURE WAS INCUBEED IN THE PROVISION OF THE FOLLOWING PACILITIES FOR FISHERMEN.

COUNTY WAXFORD.

Finish of Ourvaloe—Needed 1911. Total cost 2.45. Department's Funds 2.35 fs. 8.6. Local contribution, 5.6 il 16 sl.

Finish of Pinisheres—Picensel 1913. Total cost 2.31. Department's Funds 2.24 fs. 8.1 Local Contribution, 5.6 il 16 sl. Local Copyring of Discharder—Received 1913. Total cost 2.53. Department's Funds 2.45 fs. 8.6 Local Finish and Pinisheres—Received 1913. Total cost 2.53. Department's Funds 2.56 fs. 8.6 Local Finish and Funds 2.56 fs. 8.1 Local

COUNTY WATERFORD.

Eallymanus Word.—Erected 1913. Total cost £40, borns by Department's Funds.

COUNTY CORE.

Light of Contribution by Department towards maintenance E14. Contribution by Department towards maintenance E14.

abandoned and the rule taken up.

much more so.

(C)-MARINE WORKS. COST OF CONSTRUCTION AND MAINTENANCE CHARGED AGAINST THE DEPARTMENT'S ENDOWMENT FUND. April 1990 to 31st March, 1918.

Construction of Piers, Harbours, etc. Furchase and Upleon of Dredgers depths of Harbours, etc.		Sen Fisheries. £ 29,573 29,747	Cost borne by Agria. Board Surples. £ 12,849 1,706	Total. £ 42,422 31,453	
				-	

Totale - - - - £59,520 £14,555 £75,875 These figures represent the net cost to the Department's Endowment Fund after deducting all credits including contributions towards cost from Local Authorities and the balance of their revenue received from

the Aricley Harbour Commissioners up to 31st March, 1918. They contain a comparatively small amount for oughtening expenses, being the cost of extra engineering staff temporarily complayed whose substitution and expenses were paid out of the sums allocated for the various same temporary compress whose materia and expenses were pass one on our sense Middelfol 109. The yattime matrix motion on which they were congaged. They do evid include the payments to the regular emissioning matrix of the passes of the included of the passes of the p

(d) NOTES RELATIVE TO FISHING HARBOURS IN NON-CONGESTED DISTRICTS. The non-congrated Districts excend along the coast from a little north of Londonderry on the West

The successful Districts axional along the count from a little count of Lordenberry on the West Along of Lordenberry countries axional along the countries. In the Lordenberry countries are seen to be trained to the Lordenberry countries. Betterm are approved keret of the number of faithing bests of different Net's set cath faiting places may expected the lettered and of the fell handed a more of these places and not set to most important and the letter of the following is a brief account of the landing facilities at all our fishing places taking them in order from north

Although the matter conserns really Moville and Greencastle, which are in a Congested District, 1 may mention that on our side of Longh Foyle a railway line was laid some years ago from the Belliast and Northern Counties line to Magillian Point. I believe it was miscarded to put up a par at the Point and run a steam forcy between the Point and Generasoite, which would soon to offer a great improvement on a steam party partition for notions and tries and tree of the property of the

The hathour affords ample accommodation for fishing heats of the largest type used in the country,

Into the Direction steple accommodates for fining basis at its ingose type used in the country, for the Directional clothes to eccumpa pay but fining have not prequest. The lathour more is about 10 per payed to the country of the c contributions were not to be had. Pleasure house are at least as much sequerned as fishing boats, probably

DUMSEVERICK. Here is a community of at least 30 fishermon, having no other means of livelihood, processing their calling under most adverse circumstances. They keep their boats a Figle quat of the village in a small

In bad weather a heavy see comes in through the castern passage between island and mainland, and the

This is a small harbour used by a community of fishermen who take every coportunity of fishing. It is also used for the deepatch of beautie from neighbouring works, and other teading purposes. In 1807 it was in imminest danger of min, and the Department agreed with the County General to Suprove it and make it aufe. Work was delayed by the negotiations involved in transferring the hurbour from its private owner to the Congested Districts Found and from them to the Council. To was finally completed in 1916 at a cost of about £2,406 made up as follows:—See Fisheries Endowment, 21,487; County Council, 2618; Development Grant for Dredging, 2900. Its present condition appears to be settlefactory.

RATHLEN ISLAND, CHURCH BAY PIER.

Persons to 1911 the only hashing plate was a small plip at Chench Bay. This shy was a high year covered for shool of sape point of a bright, and an own water hear word ya withinst olders to smaller to smaller to the property of the contract of the contra

The piles is 300 feet in length with a width of 16 feet, not including parapet. It to constructed of controls blocks laid under water, and above low water the walls are carried up in concrete in-site. The piece-had is a monochibit most of controls undits.

Some reconstruction of the old slip, extension and missing of the outer part, and the province of a pumpet were also carried out for the convenience of small house.

gampia, were man carrier to no for two convenience or sum index.

The case of all works, including plant, improvey buildings, and the construction of the temporary loading place measurery for the discharge of place and materials, including erasest, for the earlying out of the work was 44,656, of what the County Countil of Antities provided 2700, and the Department 42,713

The week has been handed over to the County Surveyor or for County Anteim.

BALLYCASTLE.

Landing fashines for this or anything else have were each to be dealted. Pishing it contrid on as far as it is possible by a few small boxes; and though I do not say that has born improvements would lead to any great development of fishing, so development at all it possible without such improvement.

The real importance of the pince from the fishery posts of view is saxt fish produced at Scalilin must be unriceded on a Railysantic Tan same unitarily angles to Railin agricultural product, shough this it.

The Department always regarded their Rathlin and Bullyoutle harbur schomes as interdependent, but whereas they were able to finish Rathlia, they have never over able to beyon Ballyoustle.

whomses capy were some a name nations, every away never notes and to again neutrostatis.

Prior to the war the Department lieft proposed plane for a modes that about improvement at Ballyouttle at a cost then estimated as \$4,000, of which \$4750 was to be found by the Assertin County Council and the reast by the Department, dutief from the Agricultural Endowment, that sherine boung it is non-accordant which tensis of produces. The forecast advantance seaded by the war chilged file Department to withdraw sherip reported contribution as in productions to the Development Councilisators via unacconsolid.

same proposes construction has injunctional to the Orientepress. Commissioners with misconstitutions of Seem adaptives Incling accommodation at Budguestic most generality to provide whenever commissioners press, but the Department's final scannel in looked to for any convolution to the commissioners of the Commissioners of

BELAND MA

This is the printeds freelying the cost stars of Lease Logal. Two forcis consensus with Lease. The printed was designed in 1819 with a 1819 to improve the printed star of the honling accommodation, which printed the star of the star

Range

The protect fishing flost occusion of 12 motor bosts and 5 ottor oraths. The large (this offer no abeliar for the six is a continue wind and they are large in a condex called the Long (fish) formed by a ridge of rooks asser one of the preer. They are not got the color flow flow that this. Some time ago the finiterroom by authority-for cools a breach in the rook through which heavy sense used to break, but this work was destroyed in a gale lasts writer.

In 1994 the Department officed to constitute one-fourth of the cost, estimated at £1,0,000, of providing decrea accummentation for fishing beast, and a difficulty them cross, set the "sharkout" appared to be private property and to the County Counted could not speed money on at. I believe this obstacle no longer exists, on the projects may be retrived counter of lates.

JEOUKSPORT.

This harbour for meety belonged to Major Percoval Maxwell, who in 1900 offered to present it to the County Council and contributed £200 of two oak of require. The offer was comprehed and the County Council carried our require costing £833 104, to which the Disputament contribute £150 out of the See Polester Solodowness. Bosts are all regist when they are in, but the agenceals for stake dangerous. Apart from finking interest, the place has some importance on a glid satisfaction for Edifical County.

This is one of the most important communities of tishermen in Ireland. Their heats are necessarily on the small side, about 40 feet or less on the keek, but you will find them at every beering fishery from Co. Antrim to Co Waterford, Previous to 1911 their harbour secommodation was of the poccest, but in that year the Baard of Works completed improvement works financed out of the Ireland Development Grant, and year the posts of more analysis of the matter of safe harbourage. A further improvement, however, is proposed whenever the County Council and the Department are sufficiently in funds, namely, the provision of become to olsos the entrance in had weather. The estimated cost is £510.

An extraoedinary circumstance is shat there is no road to the Harbour, which is approachable only

through a mile or more of sort mand. Having regard to the importance of the phon, not only for fishing but for the export of posators, the Department have signified their readment to make a substantial contribution to the cost of an approach road, but the matter appears to be suspended until the recomption of the financial activities of the Road Board

settivities of the seem recent.

The eventrality and maintenance of the harbour is possibler. The Geonty Council own the butt of the seriginal works and lease the remainder from the Board of Works at a prepercorn rent and get all the class. The Board of Works mentain the harbour and appoint the harbour master on the nomination of the

ARDULASS. Reference has been made to this Harbour in a memorandom about Killough. Its harring fishing session for large boats in Amil to October inclusive.

arge come in April to Oriogen passave. It is connected by mill with Ardgiuss Estiway Station, but this convection appears to be addon availed of. The harbour is not really well suited for "treating" to English markets. In normal times fish usually go to Belfast by the Belfast and County Down Ballway, are carted over Queen's Bridge and desnetched either to Liverpool, Floatwood or Haysham, by the daily services between Beifast and these poets. A quicker but naturally more expansive route is by Dublin and Neuth Wall

The principal fishery on the East Coast of Ireland is the summer herring fishery, which lasts from May to the end of September. The history of this fishery in the past shows considerable viciositiedes, but

Roughly it is dividible into two scottons, a southern based on Howsh and a northern based on Ardglass and Kilkeel Kilkeel is worked altogether (or almost so) by the local fishing fleet, which has davelaged vary considerably in recent years. The works at present in progress there are designed to give increased sufe

bertlage and a greater digit of entirmose clusteria, and have a levely proved of great health. Some of the Kilkosi Ishteman go to Demosre in its herring fishing season, and they have a winter fishing at home earryed on in mail basis. Peatones and promote from the Mourne Mornatains are experted from Kilkosi.

The statistics appared above that pelor to the own a very large projection of the herrings lended at Howth and Arightes (up to 80 per cent at the latter place) were cured for expect. The principal market was in the Beltle peter of (ternany and Banka, and the distribution of the imperted herrings from the Steam and motor drifters from the coasts of Scotland, Berwickshire, East Anglia and Correctl attend

this fahery, especially during August In Howth in 1913 there were 57 bests other than Irish present during the mouth of August. In Arciglass at the same time there were 70. The total fleets included 47 steam, drifters and 84 motor bests.

The accommodation at both places is inadequate to the maximum demand The accommodation as both phases it insidequiate by the maximum demand.

The only orderinding requirement at Blowst in a mineraction of monthal quay epace, which so far an

The only orderinding requirement at Blowst in a mineraction of monthal quay in present and

prepare to order variant bulk, and overhald an associated in the statement of the statement of the contraction of the statement in the statement of t

at the pier dangerous. Owing to the above conditions and the small size of the harbour it does not appear probable that my reasonable expenditure of money would raffice to bring it up to the requirements of the fishing industry.

There is no water supply for vessels, and no apparent positivity of providing one, and the nearest facilities for repairs are at Dublin (85 miles) or Bellist (30 miles). The Department have been impelled, therefore, to consider the possibility of elsewhere securing better accommodation for the fishing first, and desire to direct the attention of the Committee to the

merris of among in that respect.

Killough is attasted a few miles south of Ardeless. It is not a new discovery; but its past
history is contained in a mass of documents which do not appear to be particularly relavant to the

Killough Harbor courses of a shallow tidal basin enclosed by a pier and quay which were built by the amountors of the present Viscount Banger, whose estate is held under an Act of Settlement Patent. It is prodocted to seaward on a verse or names nonzervaces or recess, which, however, are now so measure no to make navigation difficult or diagrams. The Department are adviced that operaturative sense for bringing a water supply to the pier estable for beliefles of steem vessels.

The Scheme propered by the Department's Engineer consuprises the following works in addition to water

supply: 1. Ercetting wharf on face of Killough Pier and recogning mer.

Deepening beth adjacent thereto.
 Dredging channel from seaward flate harbour to depth of 66s at low water.
 and 5. Ectaining wall and filling as Consy Island.
 and 7. Dredging borthage adjacent to this wall.

Borings were made to determine the feasibility of corrying out these works.

from a reasonable schedule of harbour dues and tolks was estimated at about £1,200, provided always that some arrangement could be come to with the Commissioners of Public Works in regard to Ardglass where as at other Royal Harboura, the income from does, rents of suring inter, &c., is nominal. The due would be putly drawed from the export of potatoes.

The raffway at Killough skints the north-western side of the harbour, but the estimates given above do not include any additional works directly connected therewish, Of course the estimates or cost are worthless now.

If come use estimates we come are womenes now.

When the Killedge scheme was first considered there was talk of the establishment by private
unterprise of a consectantal service to Holyband or Floatwood. Such a cortice, though runnly concerned
with agricultural pechase, would improve the facilities for "freshing" hereing to Kagishi assisted as the

SUMMER HERRING FISHING, MAY TO OCTOBER."

KENLAN								Howm		
Year.	Toss Lauded	Value &	Tons Cured.	Barrela. No	Tora Freshed.	Yous Landed	Value £	Tons Cmed.	Barrels, No.	Tons Freaked
1908 1909 1910 1911 1912 1912 1918 1914 1915 1916	1,438 2,978 2,439 2,619 5,035 4,037 2,938 2,910 1,985	6,916 10,144 15,006 15,907 31,569 37,306 12,300 37,390 37,390	518 1,9418 1,981 1,981 1,984 3,656 3,214 786 8758 748	360 9,386 5,546 99,67 20,586 29,600 5,500 6,129 5,235	1,395) 1,136) 1,579 1,525 1,550 798 1,490 2,000 1,537	979 3,163 2,041 2,089 2,854 3,019 1,353 2,986 2,167	3,994 11,296 10,849 14,695 16,104 18,048 9,014 40,011 62,115	63 153 1,193 472] 1,920 278] 431 866	300 1,333 7,861 3,307 8,538 1,850 3,018 9,423	6,901 2,120 443 1,005 2,361 1,889 1,074 1,867 2,321

** The landings shown for Howth during yours 1606-10 todayde herrings landed during November

The south pier of the harbour, which belongs to the County Council was rebuilt about 1902 at a cost of £12,845. It had been running store 1868. This is a tidd harbour and not too safe, especially for small boats in some weather conditions, and at present it is stated to be builty afted up. An attempt was made to develop a long, fine fishery one of large decked hosts which was not seriously pursued. Then for a time

At present it seems to be carried on with much more energy on account of the high price of fish and the dearth of other occupation. The Department have been reportedly approached by the County Council and others to provide special accommodates in the harbour for small house. The most fought plan account to be to form a dock in the north-east corner by means of a pier and an inner breakwater, which might have cost about £4,000

in passe time. No justification for such expenditure is attended by any resexuable anticipation of fishery This harhour is of more importance for commercial than for fishing purposes, but it is used by a

guarins if not very nomerous finding community. The few inage finding basis finding the number bering fishers and so other times are intermed to the deck. Congestion here, which used to be considerable in matter, should be rethred by the provision of the basis to Killeri, but the small coast which fish all the year round are upt to be improved by the booms necessary to protect the larger coaft from the run of the we up harbout. A small opering as the upper end of the dock might remedy this at no great experime but might increase sitings. Some provision for the safety of large reat approximing the dock entained in large vender is certainly most describe. The coulde for fine or in Revenuels and Belliot, or with larger ends.

The chief export trade is, I believe, in grante and potatoes, by schooner or small steamer.

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The extension and improvament of Kilkeel Hash,or which Mr. Le Fano is bringing to a conclusion were one unioned in 1814. The need was estimated as £23,000, made up as follows: Darwidymous Open continuous and the properties of Japan 1910, Owing to the war and other causes and the properties of Japan 1910. Owing to the war and other causes and the properties and Japan 1910. Owing to the war and other causes the cost has been succe than anterpated, and the Department are making up the deficiency which may amount to & out of their See Fulleries Income. Although incomplete, the utility of the work has already been amply demonstrated. It would be all

the botter for a road ortande the town to mand the steep gradient, but negotiations on the subject came to Kilked as far as concerns bering in mainly encourage with curing on account of its distance from rail heads, viz :—Norecastle, 14 miles; Warren Pomt, 10 miles, is not very well stirated for "freshing" but

There is a less cathfactory cross-channel outles from Belfast via Newcastle or (with longer caringo at Belfast) vss Worren Point. The herrang season for large boats is May to August inclusive; skiff fishing goes on from Sentember to

GELES OUAY. There is always a certain amount of fishing here by local open boats, and during the recent development of winds here a mingran a section manuscript and are not used not open and mingrane or overall GOFF design of winds the regard for the property of white the renary fishing (due to war prices) a number of obligation boats, thirdly from Cleghter Hold, fastled that fish here. These boats use the beach, and not the quay. Law year the County Countal regalest to the Department to assist in growingh better beaching assessmealfallow and some shelve for 15, but the matter

never got as far as the preparation of a definite scheme and estimate.

There has always been a potential berring fishing in Dundalk Bay in the winter-December and Incre ms aways oven a posterial periods, period gains in Demonstrate and material potential registrates and a the berrange are generally of poor quality and fetch no price. Wer conditions made these fich valuable, and in the writter of 1916 a number of moor boats, chiefly from Fortaropis, came to the finitely and proceeded to lend their side or the Darmkill quays. which are practically all private property. Disputes usturally areas between the quay owners, faberner, and fab bayers. In the following year the Department induced the Harbour Commissioners to arrange with some of the quay owners to allow their quays to be used for landing fish and to fix dues with a view to some of the quay owners to allow their quays to be used for among max and to X, closs with a view to financing this arrangement and also to providing fee expenditure on dividiging, which was necessary in anticination of the inding season. They also lent their divider free of charge and guaranteed \$100 towards cost of deedings if the disas should not cover all separates. The fathing of the following water 1916-11; was very successful, and the arrangements seem to have weeked reasonably well, but the Commissioners

wan ped the dues in payment of officials reamped the dues in payment of officials .

Last winter, as the Balberggen fishing (October and November) was a fullue, no boats thought it weeth while to go to Dundalk.

So far as I know the Commissioners have made no arrangements to meet the requirements of a fishery this winter. There has been some informal discussion about the provision of accommodation for fishing boots at Schlörer Point, where the Creek lends itself to the construction of the messary wharfage. A line of high reals could be run along the embankment to stilland. Boats wordl gain about two bosons on each title at

Seldlers' Point as compared with the quays up harbour. Occupies a unit as compared, who are query up narrows.

It is, however, very doubtful whether Dundalk Bay herrings will be thought worth pursuing after the war, so I would not care at present to recommend any eccanderable expenditure on the Seldiers' Poinc

PORT-ORIEL, CLOCKER HEAD.

This harbour was built by the Board of Wacks and cost shout £19,000. It is not outside for present reason and deposing throughout at a cast salirance before the war at £8,500. There is a considerable community of fishermen of the best type, who work in large open yearls. Although a few large boats have community of inflatfillation of the best type, who were in mage only years. Assume a warming to use used the introducers at these considerable risk, its socialities affects no positivity of the derivityment of a regular deep sea finkery, such as would certainly course if the accommodation were made suitable. Coming was started before the war, and no doubt will be resumed. The unprovement of this harbour is considered by the Department to he of great importance.

The harborn is under the management of the Perc and Dorks Barel. There was formerly a considerable feed of loops suffing travelors here, and a goat daid of the things in winter. Probably owing the percentage of the percentage of

The harbour is always sanding up and no scheme to prevent this appears to be practicable. The sand has therefore to be obserted away from time to time either by dredging at high water or showel work at

Note where.

Except during the herring faling, when the port is enoughed, the citizing does not interfer with the landing of fals, and the Department, who have always been willing to co-operate with the Port and Docks Beard, enhancing no to arrange the visits of their dradges at to have the historic dear when the field arrange is the property of th but it may often be impracticable for them to dredge the piace for the convenience of sargo beats, and their Ses Fisheries Endown can in not available for centribution for such a purpose

Skerrice Bay is the only natural shelter from southerly gales on a long stretch of cosst. It is close to the autumn kerring grounds and in its present condition is used to some extent by fishing boats from other the anjumm secring grounds and its present common is used to select wheath of fining taxis from some places, but in order to obtain the shelter of the little pier boats have to its aground for several hours on each title. The extension of the pier for 400 feet would afferd a budly needed refers for all craft teading on the tion. And dixension or one pair for 100 feet would affect a ready monor, resource for all craft stading on the mast sale in all weathers with deep-water betthe for fishing or trading vessels. Sites occurrence for fish curing are at hand and it is extremely likely that if the proposed work were correct out Sherries would become an important failing and caring station. The cost was estimated before the war at \$25,000

LOUGHSHINNY.

The Board of Works in 1888 wheilt a portion of the old rumous pier, and provided a best slip and pattern at a cast of short 25,000. Subsequently the pire was largetime at a cast of \$2,000, at what the Department pad half. It would be greatly improved by further extension and deepening works estimated before the ware to cost \$4,000. There is a considerable and industrious community of falterness when estimated before the ware to cost \$4,000. There is a considerable and industrious community of falterness when the state of the cost of the cost

Arkiow Harhour was owned by the Wicklow Copper Mine Company peter to 1889, when it was teamsferred by them to the Commissioners of Public Works in consider-time of a payment of \$5,000. The present Harbour Authority was consistented by the Arklow Harbour Act of that year (45 Vec. c. 13) and the harbour was handed over to thom by the Commissioners on the completion of works of repair and improvement commenced by the latter in 1883

These works are referred to in Stationary Office Publications C. 4678, C. 4710 and C. 4775.

These works are reterred to in Stationary Unite Functionists U. 4018, U. 5110 and U. 5775.

There can was deflayed in accordance with the Ace by a Tresury great of \$2.8,000 and a lean of \$2.9,000 (which ions included the \$2.9,000 pild to the Whichor Copper Mine Co.) to be charged on the benezine of Arthory, Bullimers Senth and George. It was provided that any expenditure in accordance with the accordance of the Arthur Senth and George. The Act provided that the Harbour Commissioners abould be.

Appointed by the Treasury by each borony charged with part of the loan, by the Town Commissioners of Arklow.

Any surplus revenue was to be applied to recoupment of loss charges under the Act.

The ordinary shipping of Arkiow consisted of a local face of counting achooness, steamers conveying materials for Masses. Kynoth, Ltd., and a fleet of fishing vasuals of which the larger are en aged in distant herring and marketed fasheries return to Arkhow only in the off stacers. Cargons intended for Arkhow had

In 1904, when the Department of Agriculture first interested themselves at Arklow, the entrance to the herbour was practicely choked by two hars of and, one between the pier heads, almost dry except at High Water of Spring Tides, and the other some 300 feet outside the end of the south peor, with a depth of 8 feet

or less at low water. This condition of the entrance was variable according to weather. Provision for deedging was limited to

work earried out by House. Kynoth, Lid, for their own pergons with a smill grad dedger.

Nother Meura. Kynoth nor any other local indinstrial concern of importance but any representation on the Harbour Board By February, 1905, by means of grab dredging, a channel had been opened entrying from 6 to 9 feet at Low Water of Spring Tides for a width of about 70 free.

Water of Spring 110cs for a width of assue to nee.

The Department's suction deedger, which arrived in February, 1908, improved this to a channel over 100 feet wide with a death of about 10 feet, and slee attacked the outer her. By August, 1906, there was a atsisters depth of over 11 feet on the outer bar.

In 1907 a sum of £14,000 provided by the Government was solutioned to the Department for inditure on extension works. Including drodging a total sum of over £15,000 was spans on the following works

Excavation of a basin connected by a narrow entrance with the river. Area about 3 acres. Construction of over 1,000 feet of concrete quay walls, and formation and metalling 4,000 square vords of quay surface together with the necessary approach roadways, and a road drawbridge serve entronce to the basin, 318 feet of these quays have a depth of 12 feet of water, and 50) feet have a

depth of 9 fees. Despering of river channel to over 9 feet at low water of Spring tides up to the entrance of the basin and cutting a channel of 12 feet and over through she outer bas Exceton of harling-up slip with steam machinery having a depth of 10 feet over the carriage at low water of Spring tides. Mimor alterations of existing harlidings, &c.

The Department entered into an agreement with the Harburr Countsmoners, dated 31st December, 1907, for the construction of the works. This agreement provided that the Department would maintain for 10

In 1919-13 the channel was deepened to 10 feet under an arrangement with Meson. Kynoch, and in addition to maintenance deeding has been done at Mosere Kynobi's whereve at their expense. In 1915-6 an extension of the hasis at the S.E. corner was dredged at Meser Kynobi's expense, in compensation for quay space occupied by them at the western side, when they erected their repeway across the river.

On the expery of the agreement in 1917, the Department, in view of the importance of montaining the outlet for Mesers, Kynoch's products during the was, consented to renew it for 12 months, so far as the maintenance of the channel is concerned, in a somewhat modified form. In 1915, the Department came to the conclusion that in the special circumstances of the time, the

perpetual memore to the channel caused by the mass of weekings and develot vessels which had been recumulating for generations applicant of the entenne to the basic must be taken in hand. This work has hem carried on from time to time by the Department's dredger and a small tog hetenging to their buckst there different on from time to some or sate Department of the different of the data has provided under These works carried out since 1907 have been an undoubted soccess. The basis has provided under burthage for vessels which not uncommonly brake £5 to £10 worth of moving ropes in a night in the group.

where there is a heavy tun in bad weather in spate of works designed to mittgate at. Mesors Kynoch have for some time been bringing their steamers into st. The hauling up strp gives familistes for repears of a kind which nover extisted before.

The fishing flost owned in Arklow has had 18 large anothery motor hosts added to it since 1910,

and a number of the original feet have been equipped with motor sugmes. 13 of the forms: were built in Arkhow he Messra Terred & Sans The existence of harbons accommodation at Arklow, superior to soything of sts size on the East Coast of Ireland, has been a determining factor us the great industrial development which has taken place there

of rooms years, bringing leed expersiture of many thornands of ponets.

It is, therefore, all the more regrettable that the Harbour Commissioners as a public body, have not developed their position to any commensurate dagree. (Individually they seem capable enough mer; of

In the matter of administration the Commissioners have been continuously dependent on the Departmout for staff and services entirely outside the scope of the original agreement, in some cases through the negligence of their own staff. 0.178

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E.c. In spite of receated protests by the Department vessels have been allowed to lie at the quay over the slip while relitting, and the slip rads have been choked with ropes and other debris of this operation. Schooners have been allowed to 18s on the slip for long periods without the earnage heing moved or the whools greased, and as a result the relationshing of the vessel has sometimes been accomplated only by the sid of the dredger's steam winthes or after the Department bave sent down a direc to clear the rails.

In regard to finance the revenue raised during the ten years covered by the original agreement, even the fortuitors increase of the last few years arising out of Masser. Kynoch's expansion after mysting ordinary outgoing, has been untificient to sever the out of the drudging, and has onlymbrated nothing to

Harbour structures, such as the Commissioners are faced with at present, or for the replacement of the slip machinery when worn out.

The talls levied in the haum do not appear to be proportionate to the accommodation as compared with that in the river outside, or to give an expectation in normal exermitances of a fair return for the £14,000 expended on it. The does on the slip favour its occupation for excessive periods, e.g., in dues. In 1916 a schooner on the slip for 114 days paid £82 6s. 9d. in does. During these periods the

any mes one them avanance me may want service.

Arklow is, purhaps the best case that could possibly be chosen to illustrate the importunce of some centralised control of the management and finance of our misor barbours.

The harhour was constructed in 1894 at a cost of about £10,000, half of which was contributed by Lord Contewn and others. It was vosted in Commences, but tendered to the Waxford County Gundin 1905. There is a convictable fishing eventuality, chiefly organized in leawling, except during the autumn

1005. There is a construction darkage enumerating clother company in a travelling, arround rathing the antimated forming the assumance of the contract forming the contract forming the contract the contract that contract the anastisfactory and prohibitive of any considerable development of fishing.

In 1918 the County Council laid before the Development Commissioners a scheme estimated to cost £18,698 for extending the South Pier and constructing an island breakwater neeth-cost of the present a lower or excounting sat Sound Fire and connectioning as a security of the contracts of the property of the property of the security of the s Denartment to whom the matter was referred were unable to story these anterpations or to agree as to the scour and a craze (mounted on a staging correct out beyond the pier as a jetty) to be used in dearing the score and a crass (meaned on a staging carries out sayon one per see green) by the used in detailing the entrance. This was estimated to cost about £1,500 but provision for the working of the crass would have to be made by the County Council. The matter should cartainly be taken up again when the financial situation readers it possible.

The place marked Blackwater Harbour on maps and charts is really a samly beach, at the mouth of the Blackwater stream, with no cort of shelter except from the west. In spite of the difficulty of hunching and Describing beats through more or less surface short of bring fishing account to have been done there show if years ago. Afterwards horning took off for a number of years, but there have been plenty about for the last to years, but the heaching conditions seem to be even worse than formerly owing to a diversion of the stream. Having been approached by the County Council, the Department prepared a science, the only one that secured to them practuable, for a jetty consisting of a timber platform carried on control piece or blocks at intervals with timber supports spared 10 feet spart between them and a winch for handing up boats. meaning was account support agreem to see again account of the jetty was provisionally estimated in 1912 at \$2,300. The level people favoured as more ambitious scheme with a deck to be secured by since work as at Countows, where, under much more favourable notice! scenario wan a new to estimate profession of annies were as no courses, many, many made into avoing no consistent contribions, contribions, contribions, contribions, contribions, contribions, contribing the project cannot be anything as the County Council were not prepared to spend more than \$1,000 and the balance was not available. The Department had previously offered \$250, had the estimated cost of a banding stage, but the offer was rejected. They did in facts provide the winch.

A small skid hardwar just sast of Hook Hand. The well used to sweep right count the hardwar or band yamid host which could be dawn up on the beach could be used. In 1903 a substrated inner hardwar was provided by mosas of overlapping piers frees either side and the place appear to be now sade snough breast of modested site. The word count 24th (minding 2107 frees the Sax Delactics References 1.1 in used. for merchandise as well as for fishing.

The Harbour is a small sousze tidal dock, too small, unsheltered, and with a very shallow approach Such as it is, it is used by an inclusions small colory of dishovares, and, if supervise, would no detect street men of the fairing close from the adjuscent creeks. A full solution of improved, would no detect was astimated before the war to copy about 27,000. This included a deep where per (£7,250) which, if no was estimated fatore the war to one amount 2,000. It is included asher work was carried out, would be a very material improvement.

START COMMITTEE ON TRANSPORT (SEISH SUB-COMMITTEE).

This is a fishing village in Waterford Harbour near Ariburstown. The Harbour, which belonged to the Waterford Harbour Board, was unsatisfactory, but of no interest to the Board. It was accordingly taken wasserfact hardon many, was unastanatory, but of no universe to the Road. It was associatingly when over by the Country Council and the seconstry were two carried out by the Department and completed in 1916. Cast, £1,131 16a 10d. Country Council, £450; Development Grant, £510; See Februsia Endowment, £174 16a 10d.

HELVICK, BALLINAGOUL AND DUNGASVAN

There is a considerable community of fishermon at Ballingpus, but the tidal harbour there, which fills up as fast as it can be diseigned, admiss on a possibility of fishery developments on modern lines.

Dungarvan is at the besid of the Bay, approached by a channel at present improstructuble for bests of say come at low water and impassable by any craft to bed weather. Helvick lies at the mouth of the Bay and affects seen natural shelter for beats driven in from the open star or wanting for tide up to Dungaran It is the nearest point to the best part of the berning grounds now worked from Deumore Ross, and there In view of these considerations the Department, when money became available from the Development

Commissioners, properly a scheme for a non-dial farther at flower for which the previous was under Commissioners, properly a scheme for a non-dial flattory at Borbot few which may provision was under The reloss scheme include make up no follows — Development Commissioners, £10,000, Comary Countil, Harbors was £10,000, make up no follows — Development Commissioners, £10,000, Comary Countil, £2,000. Circumitance have grandly increased the east, which may amount to £37,000 or more before it is handed, and the great rise in all come may make it impossible to provide for the channel to Dungarvan out of a sum of about £4,500 which remains available for the purpose out of the original ross of £50,000 allotted by the Development Commissioners for the marine purposes of the Department in 1913.

Kinade suffers from a very heavy Harbour debe and from the absource of a proper water simply. The burkhage of the pour is also imagistizatery owing to a lock projecting in front of the poor bend. The cost of clearing this many was astimated before the war at £2,000. Whether the prespects of business would justify such an expenditure I cannot say.

There is a large colony of deep sea fabrimen at Kinsale, the falling industry of which received great excensionate from the discovery three, early in the surious, of the Spring Machard Indexy. At the present moment no great fishing is being proceeded as every also bound distortions in on mark services.

Except for the bar at Wood Point, which in dangerous in strong seasorly winds, the facilities for insuling fish and keeping finity large fishing books are sample here, and the railway runs to the quay. Firsting, however, is restricted to very teleumyte seasoning by ine or three ganti decked seeds, some admire, and mellion assing in the river, not a certain natural of sem-phasane studing for patient, which are saided down almost consemption. It be days which has chounded along the Study Casts in the atturn, the local factors regularly fished them for winter convergence. The Department, is order to remarky along distillation that we of follings; or up at Wingham fight as the amount of the time, and larger as the channel, and gay in assumit sum to the Gourge Gound for maximum and light and spring a serious and support the channel, and gay in assumit sum to the Gourge Gound for maximum and light and spring a sum of the channel of the spring and spring and the sprin

The Urban District of Kfirmh is not a Congreted District. In 1913 the Urban District Council approached the Department in to dredging Capra. Harbour, which it was made clear to them that the opposition to proper court in to throughly capping transport, which we was made that to them that the Department could only do the dredging of the Council were writing to pay at most two thirds of the cost, the

(4) NOTES ON ACCOMMODATION FOR FISHING BOATS AT PLACES NOT BLSEWHERE MENTIONED IN EVIDENCE

In Lough Foyle, on the Derry side, the three local boats are accommodated in the River Ros, tied up

to the bank. The railway bridge over the raver forms a best home for one of the beau. In ordirary, during fishing season, boots are anchored in Lough Foyle opposite river.

The past town for the featurem of Lemmore and Drumavalloy-Magillipon Point.

No barbour accommedation, and only an anchorage available in Lough. Forte for about six months of the year. The beats are laid up in Poststewart during winter months, as sucherage dangerous as a result of During winter months local flaborates are employed wildfowling. Remainder of year engaged solely in

trawling. The fishing bosts are hauled up at mouth of River Bana on to the river bank.

PORTSTRWARD.

Good harbour noncommodation for existing local fleet, but dangerous approach during a swell.

During storms big rus inside harbour, and beats are generally handed up on existing slippeay out of danger. Slipway good, and plenty of space for hanting up boats

PORTRALLON TRAIL

Small creek forming a sect of herborr at east sole of key. Beans are always bauled up. Some conserve work in shape of also and landing place for small books both on this creek.

CATSENIA.

Boats are drawn up on beach at Causeway and Portmoon.

PORT BRADDAN.

Concrete built landing place connected with the salmon fishery. Beats are drawn up on heath,

Torre Hear.

Beach at end of hurseshoe-shaped intet under Lleyds' Signal Station whereon boots are drawn up.

Commences.

Landing quay built alongede stream at sooth side of bay where buste can by alongede. Peate

Readed up during swell.

Commendata.

Boats drawn up on bank of river at Cushenshill. Small harbour at Waterfoot not much used by

Boats drawn up on bank of river at Cochensiall. Small harhour at Waterfoot not much used by absence, as beats are drawn up on beath at mouth of Waterfoot River.

Small, eafe, substantially-built harbour, leased to Garalough Lame Company by owner. Gos accommodation for the few local boats.

Garanage,

Garanage,

Existing barbour privately owned and used for exporting limestone. Fishing heats are, however, drawn up alongside fishermen's dwellings between Glenarm and Cairneautic on costs road.

Berting area of hurtour ewned by Larne Co., Ltd.
Authorage for fishing bosts to west of man pur, in a basin bordered by basels on which heate are
drawn up. Landing and discharging itellibies exist.

.

Small built has bour on east side of Hainningse, opposite fole of Murk. Sheltered, and basels for boats to be drawn up.

Various backtes on seet side of Islandingses, as at Brown's Bay, where boats are due we up.

WHITEHEAD.

Small concrete pier or hading-place heads beach where beats are drawn up. Property of railway company (N.C.M. Rly.). During winter of 1916-17 from age get seriously damaged by storms. Only fit for corall boats.

Carrickyingus.

Good harbour, and landing pier and slipway for fishing boats. Suitable for fair size boats.

Споомяриту,

Concrete pier and pumpet sheltering an inner barin and baseh where boots can lie or be hanted up.

Usually hanted up. Dangerous approach and only accessible at half to full tide.

DONAGHADEE

Royal Harlour, a leg run when swell outride. Occasionally used by load boats, but principal haven for local fedding boats exists to the southward of the main harbour in the form of a walload-in basin very deep in centurs, and originally the quarry from whoth the Daugstades harbour was balk. Approach to this basin dangerous to other than local man, and only coossible at half to full table. Insulis sait is all weaklers.

BALLYWALTER.

Earlt pier making sheltered inner tidal basin. Shipway baside Coastguard Station on which boats are drawn up.

BALLYHAUSERT.

Sendi barbour built as Birr Pean, a mile from Ballyhalbert Sonth.
Silted up budly, and wretkage of old ships at head of harbour on which fishing bons sits highle to get
samaged
Good budling on ploy, and also basels where boas are drawn up. Tidal.

CLOORY. No harbour; bests drawn up on beath.

Concrete landing places justing out from beach where boots are drawn up. Poor exists where eargoes of

posatoes can be shipped from and coal imported (In Strangford Lough.) Built harbour, tidak, in bad state of repair, undergoing improvements. Beach

SPIRCY COMMUTTEE ON TRANSPORT (BRISH SUB-COMMUTTEE).

at inner end where boots are drawn up STRANGEURD.

Owned by Lord de Ros. Concrete landing piece and slip, and beach on which boats are drawn up, also quay space where large boats may lie combraisity. DUNDRUM.

Harbour owned by Lord Downshire, leased to East Downshire Company. Total meassitating continuous dredging of approach. Fixthing beats are thown up. Good landing for earge beats on quays, which are ditted with raciway lines, being convenient to B. & D. Ely.

GENEROLISTIE.

Inside Carlingford Lough beside Cranfield Point. Wooden landing stage for L. & N. Railway ferry Fishing boots sucher off basels, or are drawn up. WARRENCONY.

Two ment summing at right angles to beach form a commercial harbour for export and import. Local boats are small and drawn up on beach alongsude Large fishing bests from Kifkeel use Warrenpoint as harbour of refuge in bad weather. CARLINGFORD.

Buffe tidal harbour, giving sufficient facilities for local fishing boxts.

WHITEHOWN (Sellegen Point).

Boxts are open and drawn up on beach. RATHOUR (West of Gooley Point).

Beats are drawn up on hearh BAMPARK (West of Giles' Quay).

In Dundalk Bay. The two local trawlers are anchored off the beach , small bosts are drawn up alongside of slip built of cobble stones by local fishermen.

BLACKBOOK (Dundalle).

A wide strend obbing for over a mile. At high water books are drawn up above high-water mark in cuttings on shore along readure. A small stream has rea a fairway in strand of south and beade Largen Green, where boats are also drawn up BALTET

A built-up landing pier exists for the local fleet of salmon and mussel boats. Boats are drawn up.

Buffs harbour, used for landing fisk. Boats usually lie up between muddy banks of river, in professance to the harbour. BRAY

Small commercial harbour, not used by fishermon. Landing-slip at southern end of beach at which fish are landed and boats drawn up. GREYSTONE

Pier and breakwater ruinous, but afford shelter to the elip used by local hosts. There is also a convenient beach for drawing up boats.

KHARCHARL A natural indust in coast, forming a creek with aloping beath, where boate are drawn up.

f A concrete landing slip rens out from strend at whath boats can discharge and be drawn up alongsude by means of a band winch to beyond high-water mark.

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ROSSLABE

Good sheltered anchorage in hasin mede main barbour works. In normal times used as a base of operations by large trading travelers from Brincham. Small boots are mently beached

BAR LOUGH, DUNCORRECT Good shelter in the Lough Boots hauled up to southern bearb.

Passage Rast

Good harbour.

Pier and landing place.

Good tidal barbour for small boats.

YOUGHAL

Small herboar formed by two pure, making small inside basin in which fishing boats he in shoker considerable quay apone elsewhere, infed; anchorage to wast of harboar.

BALLYCOTTIN.

Non-tidal harbour, affording sufficient abelier to fishing boats and good landing facilities.

RATHOOURARY.

This is the place where Queenstown fishing boats are kept. It is a sheltered place on the Middeton

Chosenaves.

Good kinding plor for fishing beats and sheltered spokorage.

Overes Haven. Small landing jetty. Beats generally drawn up

OLD HEAD.

на от от от от от тр. Возолявителя

Pier and considerable shelter for small boots.

(f) PARTICULARS CONCERNING THE DIFFERENT HERRING FISHERIES ABOUND

Early Summer Hearing Francey—North Coard

EXPLY SUMMER HEMBING FRANCEY—NORTH COAST, EXTENT OF SEASON FROM 18T HAY TO MIDDLE OF HEAV-

Principal ports is geographical sequence: Killybogs, Burto-spect, Inishbedin (Tvey Islands, Downings and Bunctum.

The approximate positions of the faithing grounds fixed are:—

.....

KILLINGS.

Within Daugad Bay, from four miles went of St. John's Point to the vicinity of Inishmurray and
Mullichtmore Head extrading to Table Head.

Within Danagal Bay, from four miles west of St. John's Point to the vicinity of Insumurray as Mullightnore Head, extending to Teetin Head. An undere fishery.

Principally off the Bloody Foreland, and extending from north of Arranmora to Tocy Island within ten makes of the costs line. Both makers and offshore. Insurance Tocy Island.

Tory Island grounds, within Tory Sound principally. An instone fishery.

DOWNINGS.

Within Milroy Bay and Sheep Haven makers and off abore for rea to iwelve mi'es from conthine between Tery Island and Fanad H-ad.

between Tory Island and Faued H-ad.

BUNGRANA.

Off the month of Longh Swilly in an area extending from Fanad Head to Leishtenhull. Offsheec to twenty-five miles.

PARTICULARS OF BOATS ENGAGED IN SEASON 1913.

P-----

1 Monay Firth steam driffer, 2 local motor bosts, 6 Teelin sell bosts.

t local motor bost, 8 Bunbeg sell bosts.

INSSESSORYEN (Yory Island).

TO Hear open coats.

DOWNINGS.

A7 Moray Firth steam drifters. 5 local money boats. 10 local open and 8 local and boats.

Bungbana

65 Moray Firth steam drifters, 3 Scottch motor hoats.

Landings shown in comparative statement at end. Extent of season...From 1st May to S1ss October.

Horn and parts in geographical segenates—Porterogic, Ardghas, Annabug, Kilheel, Cloghrehad,
Horn and grounds are shown on scongenying map, and the approximate position of same are: From
the South Side to Lamber Islands and the laje of thin or the asstern limit.

to South Ship of Lambey Island and the life of Min as the satern Minit.

Fortnesses beats work mainly from Artigless on grounds from the South Ship to seven to twenty-seven

the routh and south-sant from Artigless, extending on to the treats of the Greenere-Holykand steamers.

Artistics grounds are those for Artigless.

Althoric books were rects and at St. John's Point from seven to fourteen miles south to south-sant from

Kilked and to obvious of Clogherhand.
Chiphorhand has no flows, but is a landing place for Kilked beats (with various winds) when failing off
Clogherhand.
Hieffi grounds are approximately from Lumbay and Rockshell portheast to the Cult of Min

Artigiass – 26 Scorch steam drilters, 27 Pertavogie motor houts:
Annuleng – 6 local auft locate
Killicel – 3 local motor boats, 27 local swil boats.
Clogdorhead – 1 local sout boats, and 16 Killicel auft boats.
Howth – 11 Scotch auf English steam drillers, 35 motor boats.

Howth - 11 South and English steam differen, 35 motor basis,
(local) and Arklow 12 local and Arklow sail bosts.

The individual beats at Ardgines in 1912 season numbered 200, comprising—

Irish 2 steam drillers, 128 motor and small beats

Scottach - 31 , 3 motors, 11 subus boats

English - 1 , 10 , 5

Manx - 2 , 6 ,

Langling shows no comparative statement at end,

Kally Summer Hereing Fisherny—Dunisors East Extent of Season—April to middle of June.

Principal Ports—Dumnore Rest, Dirigarvan.

Paining Greends—See Meps. Approximate position of grounds are within twelve miles of the coast See between Commerce Points to Mine Head in vicinity of the Coastagley Lightship. Insince and offshers.

particulars of Boats reason in New York (Arthur) of the Company Ligarium. Inside and conserv.

Particulars of Boats reason in State (1912).

Democre East—2 Mony Firth steam driften , 4 Arthur moor boats.

Landings shown in comparative statement at end.

WINTER HERRING FISHING.

North Cond—Season. November to March.

Principal Peru—Killyberg, Burtonpec, Dorridge, Bunorsea and Londonderty.

Philagog grounds are the same as for the certy summer herring fishing on this costs, except that about February fish are got to the eastward of Inshitrabell by bears working from Londonderty. Monity on officiac fishory.

PARTICULARS OF BOATS WORKING IN 1913 SEASON.
KIRCHERS No Steam Directors. No Motor Boats. 14 milling boats, Limb.

Burceoper 3 do 6 do. 15 row boats, finibore.
Durrings 95 do. 12 do. 38 saffing boats
Buceren 139 do 3 do.
Leodoclery 67 do. 1 do.

East Osast—Inshore fabring between St. John's Perist and Howth.
All local partially disched and undesked boats engaged.
Friding grounds within three miles of the coat has.
South-East Osast—Damones East—Eastlare.

Fashing grounds as for early summer fishery, but more inshored to steam drifters employed and 8 Arklow motor bosts. 0.178 Total landings - 2,653 cwts.

Early Stiward Herring Printer or 1913.

			EARLY SU	ммен Ниввина Р	13301	BY OF	1915	L
Searon-Ass	il to Ju	ne.		Sesson—Ma	ny to	July.		
South-exal.	Const I	ont	1005.			North	Coss	Londonsa.
Port.	Cwts.			Port.		Cwts.		
Dunmore East -	1.547	-	Freshod.	Killybars	-	1.991	-	Half cored maties, half fresh-
				Burtonpert	_	945	-	Da. do.
Dangaryan -	1.106	_	Freshed.	Inishbolin	-	5,606	_	Mostly cured as maties.
				Downings	-	9.2 9	_	Do.

33.243 owts.

SUMMER HERRING PRESERV OF 1912.

East Coast—May to October. Port. Landings. How disposed.

		landeres.		50¢ 170	
Howth		-		57.076 _	One-lifth hard enred, portion kippered, remainder freshed.
Clarker F	feari	-	-	1,300	All freshod,
Kilkeel		-		\$5,960	One-fourth hard cured, remainder freshed.
Annalong		-	-	559 ,,	One half hard cured, remainder freshed.
Ardglass		-	-	101,098 ,,	Three foorths hard cured, remainder freshed.
Portavog			-	9,286 cwt	All freshed.

Total landrage - 206,179 owto

North Const		Season	November to Mazch.	East C	best.	No	rember to	Msrch.
Killyhegs – Burtosport Downings – Burerana –	-	2,515 7,626 50,689 92,887	All freshed. Hulf hard cured, half freshed. Mostly hard cured. Mostly hard cured.	Kilked Dundalk Blackrock Annaguess Clogher Re		-	4,406 7,592 11,649 3,582 2,481	All freshed. Do Do. Do. Do. Do.
Londonderry		21,002 154,519	Half hard cured, half freehed.	Ballinggan Skerries	=		4,262 2,590 36,564	Do. Do.

Stati-mat Coast, November to March.

Rosshire Dummore East	-	-	1,199		All freshed. Do.
			2,410	owta.	

	H	BBING F	SHEELY OF	1912		
Early Summer Source April	I to July					
						Cwte
North cosst	-	-	-	-	-	23,245
South east coast	-	-	-	-	-	2,65
				Total	-	24,89
Summer - Season May to Onle	èn.					
Kool roost -						Cwts
Water Court -			-	~	-	206,17
Winter,-Season November to	March.					
						Cyte
North coast		-	-	-	-	154,51
East coact -		-			-	36,56
South-east coast	-	-	-		-	2,41
				Total	_	193,49

(g) STATEMENT SHOWING QUARTITY OF PIGH (OTHER THAN SALMON AND SCHEL PIGH) LANGED AT CHETAIN STATIONS ON LIGHT COART DURING YEARS 1913 AND 1917.

					19	13.			190	T.	
Su	tio	3.		Herrings.	Mackerel	Other Sea Fish.	Total	Harrings.	Mackerel	Other Sen Fish.	Total.
	_	_	_	Cwts	Cuta	Cuts	Cwts	Cuta	Cuts	Cuts.	Owts.
Mullarhouses				500 500	909	960	2,155	2,560	385	996	3,181
Williag Trainer				200	46	917	963	40	775	969	381
					- 40	2,853	9.802	945	476	1,548	3,359
				3,790	374	633	3,797	5,710	305	april 1	6,068
Killybege -				113	190	967	1,759	3,374	B4	40	3,466
Peelin- Insahbofu -				2,345	96	1,295	7,760	2.048	200	81	2,429
				89,645	3,536	3,503	95,654	146	-	401	547
Вансково -				04/445	7,000	1.003	1,939	3		481	42.4
Moville -				\$0,000	170	905	21,978		_		_
Louisonterry			- 1	21,000	210	1.071	1,671		_	9 696	9.696
Portstewart				-		375	375		_	400	409
Portrash -				A.583	-	141	6,666	5,564	39	204	5,690
Pertavogio-				A,000		1,004	1,006	15	8	819	942
Newcastle -				4,295	144	1,000	4,430	990	235		1.1/28
Dundalk				4,200	144	645	4,739	104	2.00	80	184
Blackrock -				4,351 3,545		650	3,545	506	95		534
Апрадмиес					- 4	986	8,000	3,319	45		3,651
Balbeiggan-					100	668	1,843	200	99		400
Skerrita .				1,078	100	916	1,879	FRG	30	1.115	2.005
Loughabinnty						194	1,013	203		190	9.0
Rush						1304	71.003	33,907	511	3,719	38,110
Howth -				04,844	9,263	3,960	35,598	30,900		28,146	35,415
Ringson! .					36	35,419	33,599	25			1.90
Kingstown-					114	3,005	8,176			714	729
Arkion -							4,295			317	511
Courtourn -						947	1,300			510	81
Wayford -						567	1,446		50	310	54
Passage East				25	_	1,005	1,050			1 1	43,55
						111	5,996	37,011			43,50
Helvick Hand					194	900	2,3%	1,681			1.66
Ballwoottin-					37		3,08	1,360	. 4		13,16
Unper Core					9,887	76	11,000	6,245	6,47		4.49
Usom Hall					3,133	558	4,210	170	3,566		17,06
Baltimore -					15,593	113	17,010		71,971		9,50
Sehall -				274	8,077	304	3,653	8,12	700		6,73
Bantey -				2,554	328		3,781	9,780	3,700		10,73
Dinele -				40	6,500	8,467	15,013	59	8,994	1,943	2,75
Seafiald :					761		920	343	1,57		1.37
South Aren				- 45		1,299	1,343			1,887	
North Arsa				3,654	3,37	738	1,838	3,600		9,673	19,01
				5.716	93		14,888	1,560	51	1,075	3,14
Costello Bay				- 01	- 1	769	830	- 1		530	81
Boundatour				. 1 14	1,04	905	1,94	92		6 222	8,06
Blacksod Poin				. 630	46	93	1,19		1 -	558	1.5
Belmullet -				. 20	14						

(a).—Total quantities of fish of all kinds landed at Irish barbons in the twelve years 1905 to 1916 (hots inclusive).

Year.	Total	Mackerel	Herrings	Other fish except Shell Fish	Shell Fiel
1906	0W6.	69/18/	07854	091s.	owts
1906	1,144,701	500,184	354,144	128,938	151,480
1907	185,955	306,973	330,457	124,171	115,487
1908	506,050	506,085	306,330	130,118	111,389
1908	961,543	30,784	320,357	140,744	117,487
1910	1,103,032	303,602	317,358	145,007	100,009
1911	1,133,960	210,221	500,560	124,949	94,289
1912	1,076,335	280,963	603,003	125,610	90,890
1913	961,014	103,405	473,703	123,572	90,810
1914	961,385	131,503	450,930,000	80,125	97,973
1914	663,385	134,505	365,973	63,610	45,947
1915	656,481	136,903	395,973	17,318	65,704

0119

(1)—Statement chowing particulars of fishing bests in use on the north cast and south coasts of Irolan from Londonderry to Recemberry, Co. Cock.

Home Port or Creek.	No. of Decked Motor Bonta.	No. of Partially or Half Deckoi Motor Bonts.	No of Undarked Motor Boats	No. of Ducked Smillionts	No. of Half Decloid Still Boats	No of Undecked Sall or Row Bosts	Total No o Bosts
endenderry Sync-	1	-	- 1		-	-	1
ellarena	5	_	119	9	-		3
autlereck		-	1			-	5
	2	9	î	2	_	6	21
ortensh	- 1	0.	î		_	6	12
	-	1	1	_	_		7
WORKS WAY				-	_	6	é
	-	9	1	-	-	10	13
tet Broddon							
allwestle		70	-		-	6	7
allycastle	- 1	2 1	=			3	5
orr Head	- 1		-			10	11
osbosden		1		-	-	3	- 2
			1			10	12
		1	1 1		- 1		4
lenare	-	1			-	3	4
Arne -	-	9	4		-	6	23
Ortmork	- 1	2	8	-	-	10	14
arefleforgus		5			-	8 3	13
elfart	- 1	3	7			3	6
		12	-		3	2	17
		7				7	14
	1		-		- 1	4	10
allywalter - :	- 1	3	-		- 1	4	7
allyhalbert	8	2	-	-		10	14
ntavagie	30	4	-	100	3	18	50
oghy	= 1	1		- 1	- 1	6	4 7
freshten	= 1	8				19	91
				= 1	-	19	19
niglas	6	1	-	1		6	14
fileogh	1					6	7
undrum	-	3	-	- 1	-	4	4
pasion	- n	3	-	2		16	90
Doné .	33	11	4	3 17 -	4	11 60	115
reconstile	=				4 8	10	11
errenpoint	-	3	-	=	- 1	7	10
	-	1	-	2	- 1	8	
hitestown others (Cooley Pt.)			- 1	-		4	- 4
flee Quay	- 1	-		- 1	- 1	8 7	6 7
les Quay		- 1	-	_	2	2	7
oudulk	= = = = = = = = = = = = = = = = = = = =	13			2	4	18
ackrock	- 1	5	1		2 3	9	16
anagasaa	1	1		- 1		10	13
ogher Head	- 1	- 1		= = = = = = = = = = = = = = = = = = = =	- 1	14	15
dtray (Boyas)		-			-	45	45
doriggin -	4	1		4 2	2	4	15
suchalumer		1			8	9	11
			=		1 3	3	12
	6 7	5	- 1	â	-	4	21
ngsend (Dublin)			- 1	8		4	19
ingstown · · ·	- 1	1	- 1	- 1	-	11	13
ny	- 1	-		=	-	9	9
icklow -		1		- 1	- 1	4 6	9 '
	38	1		-	14	6	56
duished	-				44	1	100
rtown	- 1	1	_	- 1	6		11
arracion	- 1		- 1	- 1			14
extord	- 1	9	-	5	5	7	19
osiae	1	9		 1 1 1	1		11
amsore	-	1		-	-	5	5
dissore : : :		1		-	3	7	12
rthurstown and Ballyhack		8		4	1 8	6	.7
	1 1			1	î	4	16
	-2 1	3		9	4	2 2	10
namore East	3				4	2 4	3

STATEMENT (DesCould

Home Port	ne C	reck		No. of Decked Motor Boats.	No, of Pintially or Half Declard Motor Bonts.	No. of Undroked Motor Boats	No of Dacked Bull Boots,	No. of Hal Dorked Sail Bosts	No of Undecked Sail or Row Boats.	Total No. of Boats
Dungsevan					-		1	1		4
Helvick Head				1	9		3	7	4	16
Ardinces -										5
Togghal ·				1	3			3	3	12
Ballyoottasa -								3		
Rathcoursey										
rosskaven				-	-			4 2		
Dynter Havan						144	_		4	
				3	1		- 3	1.4	9	20
Nd Head			- 1			_			2	3
			-	-	100	_	100	1 1		- 6
lalley Head					_	_			7	12 8 13 9 2 30 3 8
Recurbery -				- 1	100			1	12	13

(y) Statements as to Dradging Plant, etc., compiled by Mr. A. Hassarts, N.A.I., Puberies Branch,

SUMMARY OF THE DREDGING PLANT AVAILABLE FOR USE AT IRISH PORTS,

NOTE - No County Council owns any dredging plant.

Dredgers and berges not self-propelled unless so described.

Dredgers have no hoppers unless described as hopper dredgers.

Output of dredgers must be taken as approximate only-is would vary greatly according to Hopper barges have self-emptying hoppers.

The distinction between turge, first and seew cannot be relied upon.

I Bucket hopper dredger, self-propelled

Output 400 tons per hour

Barga corrying a priestenin grah.
 Plant employed 6 to 8 months per annum.

CARNEOUSE. 1 Bucket Drodeur

1 Tug.
1 Tug.
1 Hopper Barge.
Plant employed 3 to 4 months in the year.
BELFAST.

1 Bucket hopper dredger, solf-propelled.

2 Tugs

Plant employed all the year. DUNDBUM BAY.

1 Grab hopper dredger, self propelled. Output 30 tone per hour.

6 Barger and floats. Plant intermettingly employed all the year as necessity requires.

DUNDALK.

1 Backet dredger, self-propelled. Output 200 tone per hour.

6 Hopper harges, 6 of 250 tons. 2 of 150 tons capacity

Plant employed 5 months in the year.

I Suction hopper dredger, self-pronelled. Actual output 1,200 tons per day

Actual output 2,000 and 180 tons per day. 2 Booket drederrs.

Actual output 800 tons per day.

2 Tags.

 Hopper barges, self-propelled, 200 tone capacity.
 Hopper barges, 3 of 1,000 tons, 2 of 275 tons, 1 of 225 tons capacity. Plant is used all the year round.

Warmaroun

1 Gmb hopper dredger, self-propalled.

Output 120 tens per hour, stell mud. Employed all the year round.

Cows.

1 Bucket Dredger, self propelled.

Output 360 to 400 tons per hour.

1 Grab Hopper Dradger, self peopelled.
Fitted with a 15 ft. sand pump.

Output with grab - - 90 tons per hour.

o and pump - 900 , , , ,

1 Grab Hopper Dredger, salf propelled.

1 Grab Hopper Dredger, salf propelled. Output 90 tons per hour. 1 Service Launch.

Serves Lamma.
 Hopper Barges, self propelled, 1,800 tens aspacity.
 Barges—Some firster with seam or hand cranes, pelling past, etc., etc.
 Barges—Some firster words are in progress all the plant in worked; when not required it is being the powerful.

W ...

Grab Hopper Dredger, self propelled.
 Output 360 tons per day.
 Employed all the year, but now on Charter to the Admiralty.

Lamerick

1 Backet hopper dradger, self propelled.
Output 500 tons per hour.

Westrosi

1 Grab hopper dredger, salf peopelled Output 50 tons in mad.

Employed 1912, 7 months; 1914 7 months Now hald up owing to shortage of funds, and Commissioner's wish to sall it.

V --- ---

1 small steam hunch.
1 barge or fluxt—capacity 140 tous
Employed about 10 months in the year.

COMMISSIONERS OF PUBLIC WORKS

Busket hopper dredger, self propelled.
 Grab hopper dredger, self propelled.

Pitted with rost-ording min. Plant employed in the Royal harbours, and occasionally hired out

DEPARTMENT OF AGRICULTURE.

1 Section hopper deedger, self propelled Actual output up to 2,000 tons per day if in suitable sand, as at Arklow or Pectrush.

Backes declays.
 Output 200 tons per hour in suitable material.
 Tug.

2 Hopere barges 150 tons capacity.

Tag and barges now on Charter to the Admiralty.

The two designers are selden in commission at the same time.

LOUGH NEAGH DRAINAGE TRUSTERS. Side bucket dredger.

3 Berges.
* Upper Bann Navigation Trust.

1 Grab barge.
3 Floats.
Employed about 3 months in the year.

THE LAGAN NAVIGATION CO.

1 Bucket Dredger.

1 Tug.
Employed as required—semutanes not used for months

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LARNE
          1 Small Grab Dredage.
              Employed knoping borthage clear,
                                                        (Signed) A. HASSARD, M.A.I.
                                                              7th, Oct. 1918.
Dotails of Drodeine Plant owned by Irish Harbony Authorities.
                       COUNTY LONDONDERRY HARBOUR (LONDONDERRY)
Owners: Londonderry Port and Harbour Commissioners.
     1 Bucket Houser Dunderr.
          Length, 185 ft. between perps, 205 ft. over all.
Breadth, 87 ft.
         Self-propelled.
          Capacity of hoppers 20,000 cubic ft.
          Draft-hoppers cupty, 7 ft. 6 in. forward, 11 ft. afs.
          Dredging deaths; max. 30 ft.
                        min. 14 ft. or 15 ft.
         Output :- Dredger can fill her hoppers with ordinary spoil in 2 hours, say 400 tons ner hope
     I Grab Burge
          Not Self-propulling.
          Longth, 40 ft.
          Draft, 4 ft. 6 in.
          Fitted with steam crane with vertical hoffer to work a 10 cwt. Priestman Grab.
Plant employed 6 to 8 months in the year.

The dredger is not in commission and will require a thorough overhand.
              Above information received from A. C. Mc Stewart, Esq., M.Inst C.E.
                                               Engineers' Office, Victoria Chamber, Strand, Londonderry.
                             COUNTY ANTHIN HARBOUR, CARNLODGE,
```

Kagameev Uthes, Vistoria Gazmber, Strand, Londonders
Owners, Carnlough Lines Coy. Limited.
1 Beam Busket Fredger.

Engine to 1. Begine to company of the Management of the Management

Authority, Boliast Harbour Commissioners.

Plant is employed for 8 to 4 months per armsim.

Plant is thereroid for use at Gleanem.

Above information recover from J. Fouter Eq. , J.P., Managing Director, Cambragh Lina Co. Ltd.

mileogh

COUNTY ANTERS HARMOON, LUNCE.

COUNTY ANTRIS HARBOUR, LAW Owners, Messrs. Howden Bies, Ltd., Steneship Owners, Larne. 8 Small Grab Bredger. Used only for keeping own queys clear. In 1814 Courtword Department's Dredger "Shassad."

In 1814 Chartered Department's Dredger "Shassad", In 1817 Chartered Slipp Dredger "Garrouga," which has since been sold to England. Above information received from: W. E. Harbinson, Eng. Director, Howdon Brees, Ltd., Larne CONSTY ANSIM HARDON, BELLEGIS.

I Begger Deadger.
Length 185 ft.
Besufth 28.5 ft.
Besufth

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```
No hoppers.
           1 Tug Twin Screw "Mosgrave."
                 n Arms series - Magrave."
Dimensions, 115 fs. x 24fs. x 11 fs. 5 ins.
N.H.P. 140, I.H.P. 900.
Speed 113 knots.
                  Tomage, gross 219, nets 86.
           1 Tag, Single serow, "Lagon"
Dimension, 18ft, 35m, x 13 ft. x 5 ft. 2 in.
N.H.P. 21, LH.P. 120.
Speci, 9 kmots.
                  Tonnage, grees 24, nett 5
          62 Scows.
                  Length, 47 ft.
                  Draught, empty 1 ft. 10 ms
                                                    Employed all the year.
     Information supplied by: T. S. Gilbert, M.Inst.C.E., Engineer's Department, Harbour Office, Belfast.
                                     COUNTY DOWN HARBOUR (DUNDRUM BAY).
     Owners : East Downshire Steam Ship Company, Ltd.
           1 Grab Dredger.
                  Length, 62 ft
                  Econeter tomage, 24 tons.
                  I hopper, 40 tons capacit
                  i hopper, 40 tons capacity.
Draft hopper compty, 2 ft forward, 4 ft. aft.
                 Output about 20 tone per hour.
           4 Barges
                 No self-emptying hoppers.
                  Not self propelled.
                  Not self emptying hoppers.
                  Length, 41 ft. 6 ins
     Capacity, 20 one.

Plant is intermittingly employed all the year. It is used just as necessity requires.

Above information received from E. G. Hanssey, Esq., manager, East Downshire Steam Ship Company,
Ltd , Dundrum, Co. Down.
                                         COUNTY LOUIS HARBOUR (DUNDAMS)
     Owners Harbour Commission.
           One Centre Well Bucket Dredger.
                  Drought, 5 ft 6 in. foeward and 7 ft. 5 in. aft.
                  Propeller, single screw.
                  Hoppers, none
                  Hoppers, none.
Dredging depths, 25 ft. max.
10 ft. min.
                  Output, 200 tons per hour.
                  Longth, 48 ft. 6 in
                  Draugni, 4 ft. forward and 5 ft. aft.
             Engines, Compound surface condensing, 15 H.P.
Four Hopper Barges.
                  Drought, 7 ft. loaded; 2 ft. 9 in. light.
             Capacity, 250 tens.
Two Hoper Barges (No. 5 and 6). Purchased in 1918 from Drogheda Harbour Commissioners
                  Draught, 5 ft. loaded; 1 ft. 2 ins. light.
       The above plant is employed at dredging operation of the Port on an average of five months in the year.

Above information received from . D. Williams, Eq., M.I.Mech.E., Hagineer's Office, Dundalk.
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COUNTY DUBLIN HARBOUR (DUBLIN),

Owners, Port and Dooks Board. 1 Spotion Dredger, "Sandring," Length, 220 ft.

Breadth, 34 ft, 6 ins Register tonnage, 646 tons nett.

Bropper especies, 1,500 tons when pumping ashere.

1,400 tons when discharging at sea.

Draught hoppers empty, 14 feet.

2 full, 17 feet.

Dridging Depths: Max. 45 fs.
Min. 10 fs.
Output notual per working day, 1,200 tons.
uction Dredger, "No. 8."

Lesgth, 158 ft. Breadth, 27 ft. Not self-propalled.

No hoppers Drought, 66s, 10 ins.

Draiging depths; max, 40 feet.

min. 7 feet. Output, 2,000 tons per day. 1 Snotton Dredger, "Coques." Length, 80 fs.

Breadth, 24 ft. 6 ins.

Not salf propelled. Draught, 2 ft. forward, 7 ft. aft.

Dredging depth : max. 34 ft. Output, 180 tous per day. 1 Bucket Dredovy, "No. 5."

Length, 180 ft. Ereadth, 29 ft.

No hoppers. Draught, 7 ft.

Drodging depth : max. 40 ft. min, 8 ft.

Output, 860 tons per day. 1 Bucket Dredger, "No. 4."

Not self-propelled. No hoppers.

Draught, 10 ft. 6 ins. Drodging depth: may, 35 ft, min. 11 ft.

Output, 800 tons per day, 300 I.H. Power.

2 Steam Hopper Barges, Length, 160 ft. 6 ins. Brendth, 33 ft.

Self-propelled. Capacity of hoppers, 900 tons. Draught, empty, 9 ft.; laden, 16 ft. 3 Hopper Bargos. Length, 147 ft. 6 fns

Cagacity of hoppers, 1,000 tons. Disaght, empty, 6 ft.; laden, 14 ft.

2 Hopper harges. Length, 90 ft

Capacity of hoppers, 375 tens. Draught, empty, 4 ft. 6 in., laden, 8 ft. Hopper barge. Length 90 ft. Breadth, 26 ft.

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                                              APPENDIX TO REPORT FROM THE
                 Not self-propelled.
                 Canacity of horsers, 225 tons,
                 Draught, empty, 4 ft. 6 ins.; laden, 8 ft.
Plans is in use all the year round
      Above information received from: J. Mallagh, Assoc. M Inst.C.E., Engineer's Office, Port & Dodge
Board, East Wall, Dublin.
                                      COUNTY WATERFORD HARBOUR (WATERFORD.)
     Owners, Waterford Harbour Commissioners.
           1 Grab Hopper Dredger, "Portlainge,
                 Fitted with two Priestman grap crones, each 40 owt. capacity.
                 Length, 140 ft, between perpo-
                 Register teamsgs, 165 nat, 401 gross
                 Boiler, 126s. diamieter x 10 fs. long, 130 lbs. working presence.
                 Speed, light, 9 knots; laden, 8.5 knots.
Hopper doors rassed by steam winoli
                 Hopper dozes raised, sy seems winou
Hopper capacity, 475 tors.
Classed 160 A1 as Lloyds.
Druft aft with boliers full, and 30 tons of coal in bunkers, 10 ft. 9 ins.
                    , forward
                         forward , lades as above and 475 tons spoil in hopper, 11 ft aft-
                 Dredging depth, max, 40 ft, water.
                                       min foreward crane, 4 ft. water.
                                            After
                 Average leading time in 20 ft, of water and material stiff mad, 4 hours,
     According stating error in 20 is of water and material and gardy, a south.

According database, Mater, Markes, Chair, Good and 2nd Engineer's rooms,
in forecastic for 8 men.

Above information received from 'W. Friel, Assoc. M.Innt.C.E., Engineer's Office, Harbour
Commissioners, Waterford
                                                  COUNTY CORK HARBOUR (CORK).
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Owners, Cork Harbour Commissioners.
      Bullets Dredger, "Loughmahen."
Solf-projelled, speed 4 krots.
Ladder, 5 ft. from one side.
Length, 180 ft.
Beam, 34 ft.
            Draught, 9 fr
             Tonnage, gross, 510 tons; nett, 316 tons.
             No hoppers
            Dredging depths from 9 ft to 45 ft.
      Dredging depths from 9 ft to 45 ft.
Output, 360 tens per hour, or 400 tens soft total.
1 Grab Hopper Dredger, "No. 1."
Self-mopletd, speed 6 honos
Single serew, C.S.C. ougins
Longth, 115 ft
Benn, 36 ft.
             Draught, light 7 fs.
             Tonnaps, grees, $17 tone , nett, $16 tons,
             Hopper especity, 400 tons.
             Pitted with a 5-ton steam crane, and 30 cwt. single chain grahe
             Dreigning capacity with grab 90 tons per hour.
Also Bitted with 15 inch sand pump to lift 300 tons an hour at 40 fast dreigning depth.
       1 Grab Hopper Dredger, "No 2."
Smiller to "No.1" above but having one foot less draught and no sand pump.
       1 Service Launch
             55 B x 11 B, x 4 B 6 ms.
             About 50 LH.P.
       2 Hopper Barres, "Ownmanurra" and "Owennahous."
             Self-propelled, speed 8 knots loaded
             Twin screw taiple expansion surface condensing engines.
             Length, 196 ft
             Draught, hight, 8 ft., loaded, 13 ft.
Carrying especity, 1,300 tons for winter loads.
```

Tonnage, gross, 875; tons, nett, 474 tons. 2 Piling Barges. Not nelf-propelled. Plated with steam piling year, air compressing year, and wood-buring tools.

Not self propelled. Fisted with a steam erane and a half cubic yard grals.

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2 Barges.
Not self-propelling.
Pitted with hard cennes.
Carrying espectey, 70–110 teens.
Draught, light, 2 feet.
Not self-disharging.
4 Bellane Bargus.
Not self-propellied.
```

Capacity, 76-100 tean.

Not seld-charging.

Whose superconversion works are in progress all the deciging plant is worked. As other times when the plant it no request is to hired one. Above information received from J. Price, R.A.L., M.Inac.C.E., Harbouy Engineer's Office, Carlo.

COUNTY KEERY HARROUR (FENRY)

Owners: Trake and Proit Harbour Commissioners.

I Grab Drodger.
Filled with ancient plant,
Length, 88 ft.
Breadth, 24 ft.
Ragister tennage, 59 tons

Solf-projeticd.
Solf-projeticd bopper, 150 term capacity.
Draft, 8 to 9 ft.
Dradeing doubt in backers about 25 ft.

Dredging dopth in harbour about 35 ft. Output, 360 tens per day. Dredger works all the year round. Dredger is now under chatter to Admirator at o

Drodger is now made charter to Admiralty at or shoot Dovar.

Experies a bucket drodger to remove all from harbour, when own gub drodger could keep berthapse clean.

Above information received from G A E Hishson, Eq., M.Josef, E.L., Engineer's Office, S. Dorny Strat, Trake.

COUNTY LIMITICE HARBOUR (LANSSICE).

Owners: Limerick Harbour Commissioners.

1 Bucket Laider Dredger, "Erm Go Bragh."
Desdging capacity, 309 tens per kour from a depth of 35 ft.
Bucket capacity, 11 online fi.

Hopper capacity, 400 tons. Number of buckets, 38. Side shoots for burge loading. Outs down fistuaion. Built 1894 by Fforming & Perguson, Paintey.

Dimensions, 134 ft. 8 in. x 32 ft. x 13 ft., mostded. Tonnage, gross, 386; nett, 199. Sell-propelled serve Bunker encestly. 50 tons.

Bender canoethy, 50 tens.

Bender mid-stead and unitestablase marine boiler.

Diameter, 10 ft. 1 ln., length, 9 ft. 6 ms., working pressure, 100 ft. By Nelson & Sons, Glasgow. New m September, 1909.

Bender canoethy, 50 tens.

Bender can

Dismoter of cylinders 13 ms., 32 ms., 34 ms. Stroke, 24 ms.; LH-P., 500. Draft, light, forward, 6 ft 8 ms., aft, 6 ft. 6 ms. loaded 8 ft. 3 ms.; aft, 10 ft. 8 ms.

Mean speed, 74 anca. Coal consumption under 2 lies per LH.P. Prochourd, loaded 3 it. 6 im. Hopper, one annihilati, entrouty 880 cube ft. with sight doors. Doors worked by hand or

recipior, our animary, exposity our case in virtue upps GOTE. Doces worked by hand or steam. One white for each gain a steam. One white for each gain a tadependent engine.

Securing by hand wheel.

Towing goar, dited for towing barger.
Classification, under the British Corporation for the Smvoy and Registery of Shipping.
Class B S.

Record SS, No. 2 survey, completed March, 1916.
Accommodation, there unflects reconstructive for 15 mes.
Accommodation, the unflects reconstructive for 15 mes.
Accommodation, the unflects reconstructive for 15 mes.
Computeroners, Lamerick.

COUNTY MAYO HARROUR (WISHTOOK)
Authority -- Westrock Harbour Commissioners.

One Guib Dredger. Length, 80 4 feet. Broodsh, 32 3 feet.

9 17 9

Register tennage, 98-7 tens. Self-propelled, single screw. Draught, light, 3 ft. 6 ins laden, 5 ft. 4 ins Hopper esparity, 111 tons-

330

Output, 50 cos mud.

Output, 50 cos mud.

Used 1912, 7 months , 1914, 7 months ; now hid up owing to shortage of funda-Information reserved from The Acting Secretary, Harbour Commissioners, Westport.

COUNTY MAYO HARROUR, KILLALA AND BALLINA.

Owners, Moy Harbour Commissioners.

1 Small Steam Launch. Barge or Float

Carriery, 140 tons. , (laden), 4 ft 6 in. Plant in use for about 10 months in the year. One grab sold about four years ago.

Above information received from G. L. Joynt, Esq., Assoc. M. Inst. C.E.I., Town Surveyor's Office, Balline. COUNTY DUBLIN.

Owners, Commissioners of Public Works.

1 Bucket Drodger, "Stryphus."

Langth, 119 it between perpendiculars.

Register tonnage, 264 tone grees.

Capacity of hoppers, 250 tons Draught, light, 7 ft. 6 ms. Draught, loaded with sped, 10 ft. aft.

nunimmen flocation 1 Grab Dredger, "Saxffrage" Length, 91 ft. 6 in. over all

Register tennage, 98 tens grees.

Capacity of hoppers, 70 tons Drought (light), 3 ft. forward, 6 ft. 6 in. aft. Dredging depths-maximum 40 fs.

Fitted also with rock breaker of about 12 tons. Dredgers are employed at the five Royal Harbours, and are occasionally hired out to local bodies when they can be spered

Above information received from the Serretary, Commissioners of Public Works, Dublin.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

1 Spotion Hopper Dredger, "Far-an-Bealach," Length, 96 5 ft.

Register termage: gross, 151:11 tons : nett, 58:01 tons Somer canacity, 125 tons.

Draught: hoppers empty, 4 ft. 2 in forward; 8 ft. 2 in. aft. Dredging depth ; min, flotation.

n ... s max., 38 ft.

Output—Average output over three years 670 cub. yds. (900 tons) per day worked. Fills her hoppers, 80 cab, yds. in 20 minutes.

1 Ladder Bucket Dredogr. "Slassad."

Longth, 82 2 ft. Breadth, 19 8 ft. Register tomage: gross, 85 49 tons; nett, 82-49 tous

No hoppure No hoppurs. Draught of dredger, 41 ft. Producer death min 7 ft. 9 in.

Output, in suitable material, 200 tons per bour.

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Length, 53 ft.
N.H.P. 40, I.H.P. 66.
           Register temage: gross, 21,05 tems; nett, 5:12 tems.
2 Hopper Burges, "Oseam" and "Ciscog."
                 Not self-propelled.
                Copacity, 150 tons.
Draught : Empty, 2 fs. 9 in.
Luden, 7 fs.
     Suction Dredger is mainly employed to keep the entrance to Arklow Harbour free from the shifting
and. When not so employed works at other Ports,
     Bucket Dredger works at such Ports as may be decided on by the Department.
     Both vessels are seldern in commission at the came time.
     Above information received from A. Hassard, Esq., M.A.I., Engineer's Office, Fisheries' Branch,
Department of Agriculture.
                                                     COUNTY ANTRIN.
     Owners, Lough Neagh Drainage Trustees
                Sede buckets
                 No hoopers
                 Length, 50 fc.
Writis, 14 ft. 6 ins.
Depth, 5 ft. 6 ins. from top of dock to top of concrete floor.
Draught, 5 ft. 7 ins.
                Dredging depth, max. 8 ft. 6 ins
           3 Barges.
                 Nos self-propelled.
                 No hoppers.
Length, about 30 ft.
                Drought, empty 2 ft., laden 3 ft. 6 ins.
Capacity, 5 to 7 cubic yards.
        small grab dradger if available would be much used.
     Above information received from: H. Skillington, M.A.L., Lurgan, Engineer to above
                                                      COMPTY ANTHON
     Owners, The Upper Bann Navigation Trust.
1 Grab Barge.
                 Length, 50 ft. 4 inc.
                 Breadth, 14 ft 10 me or 15 ft. 42 inn over iron feeder belting.
                 Begister tourage, nil.
                 Draught, 8 ft. 7 inc.
                  Fitted with a Priestman grab.
                Outros under existing bares provision, 50 cubic yards per day.
           3 Bargon
                  Not salf-propolled.
                Drought, cupty, 2 ft; laden, 2 ft. 6 inc.
Canadity, 5 to 7-cepte wards,
     Used about 3 months in the year.
     Con about 3 months in to your.

A small grab dradger, if available, would probably be used.

Above information resolved from: H Shillington, Eq., M.A.I., Largue, Engineer to above.
                                                      COUNTY ANDRUM.
     Owners, The Lagan Navigation Co.
                 Length, 50 feet
                 Breadth, 11 ft. 3 inc.
Depth, 4 ft. 6 ma.
```

Designat, 6 feet,
Used by Navigation Co, for howing lighters.

Used by Navigation Co, for howing lighters.

No hoppers.
Draught, 3 feet.
Dredging depth—maximum, 3 ft. 6 ins.
minimum, 3 feet.
Outrus 30 rable yards per day.

Dradger used as required—sometimes not used for months A small grab dredger if available would be much used. Above information received from H. Shillington, Esq., M.A.L., Lurgan, Engineer to above.

DEEDGE PLANT RECENTLY SOLD.

DROGERDA

Bucket dredger sold in 1916.

Two hopper barges sold in 1917.

Steam booner dredger " Leitrine " sold in 1919

Suction dredger "Hantoor" sold in 1911. Bucket dredger "Slaney" sold in 1916.

A new 400 ton hopper with two grab cranes sold in 1917.

Self-propelled grab hopper diredger, "Curraghgeor," built in 1912—Classes 100 A1 hopper barge

A dredger sold in 1914.

Dredger "Garvogue." Hopper harge "Chatham."

Sold within about the last year I have reason to believe that there has been more divelging plant sold than is shown above, but I have been unable to obtain details.

The Harbour Commissioners of Westport wish to sell their dredging plant. Drogheds, Wickiow, Wexford and Slago have now no dredging plant. Killala has only a barre and a steam launch.

With the exception of the two barges sold by Drogheds all the plant has left Ireland. (Signed) A. HASSARD, M.A.I. 7th October, 1918.

HARBOURS AT WHICH DREDGING IS REQUIRED.

1.—The following information as to harbours likely to require the use of dredging plant is based on information reserved when making injuries as to the existing divelging plants —
Secretary, Colombia Harbour Commissioners.—If a surison divelger could be obtained at trace for use at the entrance to the River Barm for maintaining a navigable classical Percuga shifting sand it would be a great convenience Manager, Carolough Line Company.—Had thought of teying a "Dugger" deedger, but did not succeed

Director, Howden Brothers, Larne.—Hired Department's dredger "Stussed" in 1914 and the Sligo dredger "Garvogue" (now sold to an English firm) in 1917. Think dredging will be required in connection Engineer, Newry Port and Harbour Trust.-Last dredging carried out in 1884. We could do with a

role bucket dredger for the causal and a centre bucket dredger for the tidal river. Engineer, Dundalk Harbour Commissioners, forwards copy of proposals to be submitted to the Sub Committee. Secretary, Drogheda Harbour Communication.—May require a send dredger for the bar and a bucket

drodger in the river and harbour. Secretary, Worderd Harbour Commissionera.—Harbour is badly in need of dredging, but no-funds. Engineer. From Harbour.-We require a bucket dredger to clear the harbour from oils. Our own grab

could then keep the berthages clear. could shee Kepp the bertinges cours.

From lotters from other ports it would appear that the existing plant is capable of the ordinary minimum are work, but that should improvement be attempted additional dredgers would be required, the fragment of the Dougle Kengh Drainage Trust, Upper Barn Awignon Trusts and Ligam Navigo. tion Company states that he is of the opinion that if a Central Anthority had a suitable drudger to hire it

would be very much employed by these three bodies.

2. The Department's dredging plant has recountly reviewed for longer or shorter persons at the belowing piece ~1, Bractiona, S. Morille, S. Portreats, 4, Bollinovy, S. Lone, G. Currentelegon, Y. Dandalli, S. Annagaman, P. Dougheds, 10, Bellonggon, 11, Wikhlow; 13, Arkilow; 13, Controvn; 14, Edwards, S. Annagaman, P. Dougheds, 10, Bellonggon, 11, Wikhlow; 13, Arkilow; 13, Controvn; 14, Edwards, S. Mr. Dicki, report of 1907a, a copy of which S.; I mediestand, Motion to Consultive, recommends as expenditures of 26,550 on dredging. In 19 harbors the individual excenditure exceeds, 2100, and those plays are abstrare on May Pb ys are loss and as and another, the number design that in the 1902 report. (Signed) A, HASSARD, M.A.I. 7th Outober, 1918.

APPENDIX No. 38.

STATEMENTS formished by Sw George Stereson, Chairman of the Commissioners of Public Works in Ireland.

(a) Mamoranda on the Functions of the Commissioners of Public Works in connection with Harhours

In relation to Harbsons the functions of the Commissioners of Public Works full into three divisions — L. Fularry Pairs and Harbsons, and Marine Works under the Act of 1902.

II. The so-called Royal Harhoura.

I Fishery Piers and Harbours have been constructed by the Commissioners under certain Acts of Parliament siming at the development of the Fisheries*. They are in most cases small tidal works for the convenience of local fabrimen in launching their heats and landing their catches. In some cases they are more ambition, and by giving a greenable small trading vessels or fish curriers to use there.

The property of the state of the Prince of the Prince of the Prince of the State of the State of the Prince of the State of the Prince of the

Ingesters I may say that in the Printey Free and Interest to the two Directs on the least of the many facilities beyond the quays, seeps, hallands, and in some cases best-ellips. Whereast operations of the Commissioners they are banded over by Warrant to the County Commiss, for reastment, subject to a power of the Lord Liouxenans, in case of nucles, to direct the Commissioners to restore the Pier or Harbour to its original condition at the expense

of the local authorsty. Generally speaking I should say that the works are sufficient for the purpose for which they were designed and that the absence of equipment, e.g., in the matter of cranes, does not seriously affect their or as the vessels requiring such facilities are usually provided with them as part of their ewn equipment.

No doubt in some cases, owing to changes in the manner of fishing; the piers do not give facilities which would now he thought descrable if the work had to be done do now. To renorly this definency the Marine Works Act was possed in 1902, which gave a wider scope in the planning of those small Harbourn or improving existing Harbourn with reference not necessly to fishing

but to local industries, but its operation is limited in Congested Districts: A line of the works constructed under this Act, showing the accommodation given, is appended The operation of the Development Fund may lead to the provision of harbour accommodation for

fishing heats and minor general trade on a furly large scale.

Two such athannes at Burtonport and Bungana have been approved, and another at Dingle, but are hung up owing to the War.

It is proposed that the Commissioners should carry out the works under the Pinhery Acts so as to take Situatings of the power given to them by these Acts to make loans, and to transfer the completed works for maintenance to local authorities.

II. Of the five "Royal" Harbours—Kingstown, Howth, Ardgless, Durantee and Denaghades—two, via, Ardgless and Howth, are vested in the Commissioners of Public Works as such; the other three— Kingstown, Dunmore and Donaghadee—are vested in separate Commissioners appointed under local Acta by Kingiowa, Duminos and Arangianis—are veter in repeate Commissional to the Lord Lautemant, who, in practice, appoints the individuals who happen at the time to be the Commissionars of Public Works. All five are maintained out of Voted monitor, which also bear the cost of

Of the five three—Howth, 1810, Dumnore, 1818, and Donaghadee, 1821—were started as Mail Pocket Stations , Kingstown, 1816, was intended to be a Harbour of Refuge with facilities for Mail Packet services and for general trade. It has since become a Naval Station varying in importance from time to time, and the Headquarters of the Irish Lights service

Ardigles was originally a private Harberr; it was vested in the Commissioners of Public Works by the local Act 39 and 40 Vas, cap 320 Democre, Howth and Decaghades have long econed to be used for Mail Products, but the importance of Kingstown as a Mail and Passenger Seation has stoodly morecased, and it is now the "Gasts of Iroland."

For this gurpose, under present conditions, it is fully equipped and suitable. Larger on more numerous

vassals would necessitate considerable works. As regards facilities for landing and experting fish and for general trade. Ardglass has a considerable fish trade and some imports of coal and exports of potatoos, for which the

accommodation is adequate. Howth is in the same position as regards export of fish and import of coal.

All these three have either railway sidings on the piece or (as at Howth) a closely adjoining railway.

Dunmore is 14 or 12 stiles from a realway station by a hilly road. It has a considerable fish trade (for which inhonertors by sea are used) and a small local general and coal trade. For all these facilities

* Full particulars of the system are given in the second report of the Royal Commission on Public Work-(CL5,264), 1598, paras, 16 e5 sco.

Kingdown does little or melding in the expect of this, bet has a conditionable onal touth, some supertical his issues goods minker and import to Tailway material. The infinite for all littles are subsequess. Name of the five Boyal Relations has any par of the engagement that is found in large communical commercial largest does been also as the contract contract that the found in large communical commercial largest does not make a design of the contract that the contract largest make engagement and the contract largest make a commercial largest of which is not have a form the contract largest material and the contract largest material in now greater than when the Hartenna A regarded right of which it is may be and generally that it is now greater than when the Hartenna

As regarded depth of water, it may be asid generally that if is now greater than when the Harbourn were half water than the control of the control of the control of the control of the control over these as regards they makes use, management or improvements, except that is the cose of Galray they corrects some control over expenditure as they must be a second over expenditure as they are the first over the control over expenditure as they are the first over the control over expenditure as they are the control over the c

Their estationy powers enable them to make loans for harbour works

These loans are of infraquent occurrence. Particulars are given in the attached statements (3).

These lease are of intropose concretion. Particulars are given in the attached statements (3).

A total of 2505, 188 has been advanced.

Of this 253,833 has been received, and there is now outstanding a halance of £121,257.

Fearnth for a humanum of 250,000 in 1980.

The state of the semiporary of states of \$15,000 in 1870, repost frow years later to the Belfast Harbour Commissioners, the Commissioners have hid no less transactions with the Harbour Authorities of Dublin, Bullstay, Corp., Localcadary or Waterford.

In commercial harbour, therefore, any estatements as to the adequay of emoting facilities, or the greening of the procurate at the state of the states of th

CANALS AND NAVIGATIONS.

The Communicators of Public Works are owners of the Shannon Navigation; they are not carriers, but such as the surjection and charge tokin on receiving it. Between Lieutench and Correction Shannon and on the breach to Boyls, the Solets are campled of stating any cental board toke on texture the Grand Casad, which is the principal carrier on the Shannon; however Gurrier and Lough Allem the depth and the looks are catalled.

1000 Mer Gilmett. On the State of the Canal, which was transferred in 1888 to the Lagan Navigation Company. They size maintain certain works on a small Navigation, the River Maigne, from the Salament to Adam.

The whole question of the Canada of Irstand was carefully conjured into by the Royal Commission on Canada and Water ways, who reported in 1911 (OJ. 5609). As the Government has not concerned its views

Contain and wraterways, who reported at 1911 (Od. 2023). As too constrains has not expressed its views on this report, the Commissioners feel themselves produced from making any remarks on the suggestions make in th.

(b) LIST OF THE MOZE IMPORTANT FISHERY PIEES AND HARBOURS AFFORDING FACILITIES FOR FISHING AND GENERAL TRADING VESSELS.

Map.	Name.	County.	General Description.	Controlling Authority.	Facilities for Torreport, Remarks, etc.
1	Balbriggen	Dublin	Pier and Quays	Dahlin Port and Docks Board	Prer 270 feet long. Harbour dries out at L. W. At H. W. about 18 feet alongside pier. Roalway penses across beed of harbour. Sifting most complained of. Small fathery and general teach.
2	Azklow	Wieklow	Pier and Harbour	Arklow Harbour Coungle- slooms	Harbour sustices about 23 acres with death ranging from 6 to 10 feet at L. W. Basin for fishing craft secontly exceeded uses main piet. Much used for fishing boats and general trace. Lettence some- tices obstructed by bar. Rallway passes through from but not directly connected with harbour.
3	Courtown	Wexford	Pler and Jetty	Lord Courtown	Small pier harbour, screw pile jetty 200 feet by in fact with a T head 35 feet wide nearly dry at L. W. Four males by read from Corey, the nearget reflect station. Some fishing and general trading cerned on.
6	Kilmore	Wexford	Pier and Quay	Wexford County Council	Small single vier and groyne. Quay about 100 fact by 34 fact. Originally had about 5 fact depth at L. W. at per, but it has become so allied up as to dry out now at L. W. It is about free route from milway (Goodare Brunch). Some little fishing and grown) trading.
5	Dinimino	Wexford	Firr and Boutslip	Wexford County Council	In Waterfeet Barbour Best nide. Single Pley about 200 bins long and 35 feet wide with approach quay. 200 bins long and 35 feet wide with approach quay- influent to its beauguing. The correction passes at with mod. Landing by holk macond of girthest and community theythe by a gargery. Some small amount of fishing and general trade. About four miles from Sondare Branch Extlemy.

No. on Map.	Name	County	General Description	Controlling Authority	Facilities for Tressport, Senseks, etc.
6	Passage East	Waterlord	Piero and Brookwater	Waterford County Council	There small peculial piece and shelter breakwate strated in Waterford fairbox (West 1864, cardo strated in Waterford fairbox (West 1864, cardo strated in the feet by spire a which is moving of the strategy
7	Boat Strand	Waterford	Pier, Bresk- water and Wharf	Waterford County Council	In Dunahenstrin Roy, County Waterford, A vanil part Too feet formy with what 20 test which specifies and the second of the second of the second of which drive out at L. W. The pint has a depth of L. We drive out at L. W. The pint has a depth of L. We believed were seek schooling. 100 feet to greatland age at the second on a phatema 110 feet by 50 feet and the second of the pint of the pint of the pint and the second of the pint of the pint of the pint and the second of the pint of the pint of the pint of Santon Cherol's Cases on Waterlead and Dangarwa Lans Active records and defining
8	Bally regsul	Waterford	Pacer annil Whearf	Waterford County Conneil	A pier of shoat 900 feet in length and 40 feet what width, priving of which is occurred by a beately Freen the whole angled the pier heads a beatscape projects at right engine to the pier what fin depth of 2 field and pier to the pier what fin depth of 2 field along the outer beths and 4 field aught of 2 field along the outer beths and 4 field and 10 field along the outer beths may be and day at I.W. Deathease over mile from Durgows Rollway Storlion. Used by small fishing beats an occurrence within
9	Ballycottin	Cork	Pres, Bont- slip, Break- switer and Wharf	Cork County Council	Per 360 feet long in two ones with what width 30 feet sogother with beakwater on prog- 500 feet in significant control of the second of the se
10	Kinsale	Cork	Pior and Quayo	Kinasle Harbour Commis- sioners	A just 100 feet long by 100 feet wads, covering stangerous rock, together within him of quarta-feet and an extensive stangerous rock, together within him of quarta-feet anneances, side gays will gitter. Specific t. NY process from T feet to 0 feet along the ones, the together feet and general made counsed on. This was the made growth under counsel on. This was the near the country of the count
n	Baltimore	Cork	Pier, Wharf and Best- alip	The align are under the control of the Baltunore Harbour tommistioners. The pier is under the control of the County Council of Cock	An exhecute to a very shill give forms and 100 feet by earlier beaths of shoult 5 fox. IEW, depth about the beaths of shoult 5 fox. IEW, depth about 15 for. The until beathing, a present on a disc form the works. We prove to a supervised belongs form the works. We prove to a supervised belongs about the part of the should be about the same about the part of the shades in the Point, Siese the adoptions and Todorical Entrewthen Lart our stronger of the shades of the Point Siese the Scattery.

No. on Mag.	Name.	County	General Description	Controlling Authority.	Facilities for Transport, Bennarks etc.
12	Union Hall	Cork	Pier, Wharf and Quoy	Cork County Council	The works sittented on north shore of Ohindree Habour contast of a page, this survivae of white board contast of a page, this survivae of white health of the page
18	Dingle	Keny —	Pier and Boatship	Dungle Har- heur Com messoners	Apper (20) feet in 1600th and about 50 feet with section levels in both 40) has been used to whole trans. The whole of by a L. W. about 11 fe depth available in 41 W. Some shifty, and a mu- amount of probab trade is employed on, but the name of the section of the section of the section name of the section of section of the section of the between the piec and the extranse, it all times of the finished of the section of the section of the finished of the section of the finished on Dinglic Saldway is about has unite distort. The place is worsh kept both by it directly of appeals from assessment.
14	Tarbert	Keny _	Pitrs and Qmy	Kury County Cornell	this weight according of two learn regardly possible, we seed of by a copy their more such. The Norman is 600 fixed to frequent with a whater which is not fixed to fixed the second of
15	Currigabolt	Clase	Pior, Wharf and Quay	Clere County Council	Weeks wheated in Couringhabl Bay on such above. Machine Bostony and automote. A play 1800 is industrial with an outer and 190 feet in length, with an outer and 190 feet in length, a beauty a wheat with all food. A query and incline heavily a length of the survey of th
16	Behrnilet Ekat and West	Mayo	Pier, Quay, Cagal, &c	Mayo County Council	These works contain in second consecution in the con- of Percolators and Binkstool Rayes at Solvandi synth brothup, occumentation for small vession that the contract of the contract of the contract length, with a shift of third of the contract length, with a shift of the first contract length, with a shift of the contract length of the length, with a shift of the contract length of the length of 11 feet, us on the Binkstool Raye gain. If when the shift of the contract length of the shift of the contract length of the length of the length of the length of the length of the channel about 1,000 feet in length and 50 feet channel about 1,000 feet in length and 50 feet and 1,000 feet in length and 1,000 feet and 1,000 feet in length and 1,000 feet and 1,000 feet

No. on Map	Nume.	County	General Description.	Controlling Authority	Facilities for Transport, Remarks, etc
17	Bundoesn	Donegoi	Quay, Boat-Ship	Denegal County Council	The weight comme in a small energy based file to be particular. The three breaking life like of the long is in the first and the life life life life life life life lif
38	Killybegs	Doorgal	Pier ,	Donegal County Counsil	The works occased in a timber year 250 feet long by S0 feet word, agreeing from the head of a previous wording old thome give. Doublist shead at L. M 15 feet 250 feet of the previous shear of the from Killyboys staken which is at root of pare, van down the pire. The pare is used for faiting beats and for greenal trade children in coal.
19	Bunceaus	-Denegal	Potr and Wheel	Donogal County Council	A piece skill foot being with a wharf width of 35 feet connected to share by cameray; or agreement feet being by 10 tool wint. In recent press on open too the connection of the connection of the piece share the bear added to skill from book to the too skill from book to the too skill from the too the
90	Fortstowart	London- denty	Broakwat'r and Bost- elip	London- derry Co Council	A breekwater about 330 feet in length shalters a unal beam for fashing boats about 330 feet by 160 feet in ansa, the individued side being provided with a boat dip and winch fee bashing up beets. The place is noted for remail being toots. Distant about 2 units from Portstoweri Stations on Mulbard Hall way (ALU).
31	Newcastle	Down	Piers	Down Co. Cornell	The South Peri obcut 600 feet in length and 30 feet what worth, and the North Pies 400 feet in length visit evolution of with the 400 feet in length visit feet with the principle an area of No fore by 30 feet. The Insibora in really dry and the period of
83	Annalong	Down	Quay	Down County Council	An existing entell booft extended to about MO feet by 100 feet, and gauge about NO feet as length and show were consored from about extensive. The whole assay drive on at L.W., but at H.W. the show the consored from about extensive. The whole assay three on at L.W., but at H.W. the shower of the consored from the consorted of the consorted from the consorted of the Nessos railway states in Nesson to B. A. C. Down Railway, distant is made.
23	Kilkeel	Down	Piece, Quaye, slips, etc	Down County Couned	A gior about '000 feet is length with whart width of about '20 feet. L.W., depth at head about if rex- dumnabing to 0 feet at 100 feet flandmost from gire Bood. H.W. depth about '25 feet. A bearin and autorepaid by quays about 30 feet in while, tegether with a tent-slap at approach quay to give root. The plast to much used for fining earl; and general tends. Works additional to the above have some They law of the Department of Applications.

No. ou Map.	Name.	Ceenty.	General Description	Controlling Anthonty.	Facilities for Transport, Remarks, etc.
94	Carlinghed	Louth	Puge and Boat Site, etc.	Lenth County Council	Werks setmoiod on Strath slays of Carlingford Lough by means of two pores sections an area about 1,000. The East Pers is about 400 foot in loosely, with a water which of Societ. The East Pers is about 400 foot in loosely, with a what with of Societ. The Society of Societ. The Society of Society is what with a society of Society and concloses also yet the La.W. At II W. there are decisioned as the society of the La.W. At II W. the sea as display to the La.W. At II W. the sea as display to the La.W. At II W. the sea and condomined a society of the Society of Society and the Society of Soci
25	Giles Quay	Leuth	Pier	Louth County Council	A concrete pice, about 440 feet long, used by februs and sense general trading vessels. About 3 mile free Bush Station on the Dundalk and Groener Bunch Hallway.

(c) MARINE WORKS ACT, 1992.

WORKS CONSTRUCTED AND MAINTAINED BY THE COMMISSIONERS OF PUBLIC WORKS FOR THE PURPUSE OF DEVELOPING INDUSTRY OR TRADE CARRIED ON BY THE INFLRIFANTS OF CONGESTED DISTRICTS.

No. on Map	Name	County	General Description.	Controlling Authority.	Pacalities for Transport, Remarks, etc
26	North Harbour Cape Clear Island	Cock .	. An Issuer Basin and inner Harbour	Commis- sisters of Public Works	The size of the content of the first
87	Remod Pount	Kerry	_ Boat Stip	Countly same nof Public Werks	The works done under Martne Works Act combits in extracting and withinking a until tribing old algorithm and tribing old algorithm and tribing old algorithm and the standarder of both Genning Complet, to come 300 feet in length by 40 feet in works, with a despit of 5 feet in 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,

No. on Map	Name,	County.	General Description.	Controlling Authority.	Forffities for Transport, Remarks, etc.
25	FORSTACK III	Clare	Two Pina and Harbour enclosed	Partly County County County Partly County Packer of Public Works	Seal two pick belong, reducing me a total 26 forms yet of the classified in Shift, those 25 for the Six yet of the classified in Shift, those 25 forms I/Sr. Court Class. The First vers constructed for the Son Barbards Arman at transferred to the classified the Shift Shi
50	Roundatone	Galway	Harbour, 100 by 200 feetenblood by two piers	The Commissions of Public Works for the Works for the North Pick and the County of Galway for the remainder of the works	Bituated or West side of entrance to Detectably the May West Changer. Two L Judaped pass enables May West Changer. Two L Judaped pass enables and the May West Changer. The May Detect has possible the control of the May West Changer and May West Park before high and the Marian West Asia (1912) West was said of the Marian West Asia (1912) West was saided to the County Counted of College. Used to the Marian West Asia (1912) West was saided to the Marian West Asia (1912) West was saided to the Marian West Asia (1912) West was saided to County Counted of College. West County Counted of College. The Set Parkins Laborate Settle and Counter for the Marian West Counted of Counter Laborate Settle (1912) West Counter for Marian (1912) West West (1912) West West (1912)
20	Kilronan	Galway	Mein Piar Harbour and smaller West Piet	Main Fin — County Constol Galway West Pice — Confi- sioners of Public Works	Schouses—Surch Educated of Asson Galvern Days, or a supersect successory 200 flat in layer and it is for an opportune consequency 200 flat in layer and it is for a supersect successory 200 flat in layer and it is for a supersect successory 200 flat in layer and in
21	Cleggan	Galway	Mann Pier Basin Groyne each Cattle Slip	Partly County Countil of Galway and partly Countil along of Public Works	The retirent works, which had have overstoomed by the Christmostope of Paulis, Waye and varies to the Christmostope of Paulis, Waye and varies and the Christmostope of the Christmost of the Ch

No. on Map	Name.	County.	General Description.	Controlling Authority	Facilities for Transport, Bonnaks, etc
312	Knyara	Galway	Small Per and Quay	Commis- sioners of Public Works	This works constructed under Mantas Works As- consisted in the subgradion only of a small pier an gauge situated in the vallage of Kawaren at the hand of a long label at seathward rangle of Galwar with the same of the same of Galwar and the works and also 200 tests in of quayer about 30 eros with a side and the same of the same of the same with the same of the same of the same of the same tart, and exports an occasional acloses of barley Noaron ranlewy satisface Arenakan, on Genal Sentate and Western Jadleway, Emile deletted.
33	Gortzante	Doorgal	Qmy	Commissioners of Public Works	fortnesses, silented in the Romes, on Decopil, and of Civil Science, on menhance, and of Civil Science, on menhance, which is the first post in grant of Civil Science, on menhance was a silent post of the silent post of th
24	Clad- nageragh	Donegal	Pret	County Council of Denogal (under lessa)	As extension in finite 05 feet in length by 26 feet; width of a small coving pow constructed by the Consisted Director of the Consisted Consisted Office of the Consisted of the Consisted of the Consisted of the Consisted on Consisted on Consisted Office of Consi
35	Postore.	Denngal	Pier	County Council of Donegal (under leave)	The works consisted of the teest-treeties of an el- per destayed by the see. Length 295 fact, with what width of 11 feet 5 mts. Whole nearly do at a LW, areange depth about 10 feet at II W Situated on south shore of Geordant. Buy el- Decept, about 11 miles by road from Glories, it bearest early station. This place is little used for faiting or any oth- purpose.
30	Downles Bay	Denegal	Pier	County Countil of Deceased (unfer leade)	Situated on cool off of Shonphavon, on Deanes, Single poor, 50 Ged la length, with a white Shongh poor, 50 Ged la length, with a white Shongh laborated to the San Fisherias Acts and transderred in the Ownery Countil Under the Shanga Works And County Countil Under the Shanga Works Andered to the God the San Depth of with as these lat face and of the year. Depth of writes the Sheel lat face and of the year of the Shanga Workshop and the Shanga Thia Shanga
37	Palcerrib	Dengal	Beat Slip	County Council of Danegal (under lease)	Reat-dip, 200 feet in length by 30 feet in wealth, attenting between break of E.W. and L.W. with a same loot platform as bend about 90 feet by 30 feet 17 work is affunded on noth shore of Government and the strain of the platform his on Donegal, soil is shout? I will be distinct by had read free. Dumplor Sonal Statice, on Benton peet Line. The state of

(d).-ROYAL HARBOURS.

No on Map	Name	County	General Description	Controlling Authority	Facilities for Transport, Ramarks, etc.
38	Kingstown	Doblin	Harberr, 228 area, enclosed by break- waters	*Commissions of Simple of the Commission of Kingdown Harbour,	Signature. The third of Carlish is first of Vertical State of Strategy and Technologies (Carlish State Strategy) and the state of the Strategy and S
26	Howth	Dubbn	Harbour, 50 arms, enclosed by break- waters	Commissions of Public Works	Two small jettles, about 100 feet and 70 feet, purject that the lactions from wore the outer ends of the third had been from the contract of the petrics about 5 feet at 1, 4.7. No comes or good a feet and the contract of t
40	Andglass	Down	Harbour, 19 acres, L.W OSE, ex- losed by breakwater	Commission of Public Works	South Per-Derlings at South Per-short 20 for the Per-short 20 for 20 fo
41	Dozughadee	Down	Harbour, 7 acres, en- cited by breakwater	*Commo- nionen of Donagna- des Hur- bour	Single Port, with outlying thellowing Irealwater, Backings demands per GD feet, with what gloss about 15 feet of hopes of the state of

^{*} The Commencers of Public Works have been appointed Communicorry of the Harbour.

No. on Map	Name	County.	General Description	Controlling Authority	Pasilities for Transport, Remarks, etc.
45	Dumore East	Waterfood	Harbour, 7 arre- caclosed by brak- water	Commis- sisses of Dunmore East Har- bour.	the jets Shall provides between 100 cets. In Brazil, with a behalf which of 30 feet, but had on 12 feet to 12

^{*} Who Commissioners of Public Works have been appointed Commissioners of the Harbour.

(e).-HARBOUR LOANS (1 & 2 Wm. IV. c. 53)

A sum of £595,755 has been advanced to £100 March, \$195, as leave in connection with Harbours and Dodas. Of this accuses, £59,895 has been remitted from time to time, and £106,175 has been remitted from time to time, and £106,175 has not yet accused on. With the accusying of a temporary lear made to £101,000 for this was signal in £261 place in no record of any lean having been made for the Perus of Dublis, £61fass, Londoniury, Code or Waterloot.

dendarry, Cork or Waterfoot.

The following statement above the current loans and the principal culotanding at 31st March, 1918.

		Н	arbs	u.			Amount Advanced.	Principle outstanding at 31st March, 1918
	-						£ s. d.	£ a. d
Kinsale*							11,356 15 1	1,302 19 9
Westvort							1,500 0 0	192 10 0
Clarecastle							450 0 0	208 0 0
Wicklow*							6,566 0 0	3,563 1 8
							66,000 0 0	51,381 19 p
							405 0 0	310 10 0
Forms*							2,000 0 0	1,691 13 4
Galway							88(100 0 0	7,876 17 8
- 1							8,800 0 0	3,318 8 5
Limerick (e	come	gratio 3	0 -				49,413 18 0	3,637 3 5
Arklow*							20,000 0 0	8,602 12 6
							3,500 0 0	2,637 9 9
Carrickfers	Sing.						12,000 0 0	4,159 8 5
Traine and	Fex.	t -					95,000 0 0	30,010 15 1
Balbriggsu						-	1,700 0 0	1,950 12 10
7/	tala						303.516 13 1	191.506 14 4

^{*} With security of local rates, etc.

A. H. Sidwell, Deputy Accountses, Office of Public Works, Dahlin Srd day of September, 1918.

HARBOUR LOANS (1 & 2 Wm. IV. C. 83.)

The total amount issued to 31st March, 1918, £595,284 15s. 7d. meludes the following .—

Ardelass	-		-						
Arklow									
Belfast	-		_						
Carrickfen	CER	-	-						
Dendalk			-						
Drogheda	-								
				_	-				
Kinsale				-		-			
	_		_						
		_		-	-				- 1
Newty	-	-							
	-	-							
Traleg and	Funit								
Wicklow									
									61
									-

The amount remitted (£83,832 %, 4d) is made up as follows :-

i.	S Dayaty Office of 4th S		Dubl	in.						
								683,832	2	
	Wicklow							8,596	6	
	Ardgluss							6,650	0	
								0.336	16	
	Limerick	-						\$58,863	8	

SELECT COMMITTEE ON TRANSPORT (IRISH SUB-COMMITTEE).

Is oux to Statements and Letters relative to certain Harbours and a proposed Conal Extension, concerning which no Oral Evidence was taken by the Sub-Committee.

No. I.—Greystowns Harbour.

A. H

(a) Statemens dated 18th September, 1918, submitted by Mr. H. Joseph Evans, on behalf of Fishermen and others, so to the condition of Greystones Harbour.
(b) Letter dated 23rd September, 1918, and accompanying Supplemental Statement relative to Greystone Eyr.

No II -- Wicklow Harroug.

(a) Statement as to the Development and Equipment of Wicklow Harbour, and particulars of the amount expanded on its construction, transmitted on 21st October, 1918, by Mr. Henry J. MThail, Town Clerk of Walklow.

on behalf of a Committee consisting of representatives of morehant shipping, and other local interests.

(5) Estimate of amount required to carry out proposed Harbour Improvements— (6) List of Harbour Louns and Town Rates for Harbour purposes

No. III.—ARKLOW HARBOUR

Engineer' Reports, so under, submitted on 12th October, 1918, by Mr. James Doyle, Secretary to the Harbour Board.—
(6) Report, dated 12nd May, 1916, by Str John Parser Griffith, M.Inst.G.E., relative to the South Pier.

Present to the South Pre-(1) Report, dated Sh Docember 1916, by Meann. Dolap & Waller, Civil Engineers, on the North Fire Head. (2) Export, dated 28th September, 1917, of Mr. J. Cashoner Smith, M.Inat. C. E. Azzistani-Engineer to Board of Works, Ireland, on the condition of the

No. IV.—KINSALE HARDOUR.

(e) Letter, dated 19th September, 1918, from Mr. P. A. Hegerty, Town Clerk, Kinsals, relative to desired improvements at the Hardware.

(b) Statement, dated October, 1911, as to Kinaslo Per Debt.

(c) Letter, dated 23rd September, 1918, from Mr. E. H. Leskis, Secretary, Cock,
Bandon & Scuth Coast, Enflway Company, as to the monestry for railway
connection with the hurbour.

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INDEX TO STATEMENTS AND LETTERS-Contil.

No. V .- WESTPORT PORT AND HARBOUR-

(a) Letter, duted 8th October, 1918, from Mr. Thon Rauledge, Chairman of the Port and Harbour Commissioners as to the conflikin of the Port and

(i) Copy of Resclution, dated 4th April, 1900, or the Port and Harbour

(c) Copy of letter, dated 5th September, 1905, from Mr. Joseph McBride, Servetary to the Port and Harbour Communicopers to the Raght Hon. W. H. Long, P.C., then Chief Secretary for Ireland

(d) Copy of letter, dated 7th Ducember, 1905, from the Right Hon. W. H. Long to Mr. Thos. Rottledge, Chairman of the Peet and Harbour

No. VI -- PROPOSED CANAL EXTENSION TO KILCORNAC, KING'S COUNTY, (a) Letter, dated 6th September, 1918, from Mr. P. Smilly, Honorary Secretary

to the Kilcornae Town Improvement Committee, recommending an Extension of the Grand Causa (i) Detailed Estimate of Traffic of the Kalcurnac district

(d) Bayer's d Mr. T. J. O'Sullivan, AMLIGE, County Surveyor for King's County, on the proposed Carol Extension (d) Latter, dated 12th September, 1918, from Mr. W. Robbins, Secretary to

the Kina's County Committee of Agriculture, forwarding copy of a

I. GRAVITONIS HARROUR AND PIER (a) SPATTURING by Mr. II. Jason Brons on behalf of fishermen and others.

Prospect House, Trafalgar Road, Greystones 8th September, 1918

DEAR SEE. In raply to your letter of the 11th inst, a meeting has been held to-day of fishermen and others, and --- 1. The fishing industry here, which as present one only be carried on with small open houts, could be

 Winter fishing is practically impossible owing to the present conditions.
 Formorly the Harbour was able to accommodate several scal achievers owned by local merchants. but owing to its deplorable condition it is now useless, and ond has to be brought to Graystone by rath. 4. We beg to point out that between 20 and 30 years ago we understand that a sum of about £25,000 was spent on this harbour, and now in that short space of time no coal schooner or large fishing best can use

it is an, time.

The nirth pier is a complete wreak, is consequence of which the sund and shingle travelling from the north completely fills the Harbour,

5. A portion of the East Pier is gone, and the remainder is not expected to stand much longer. H. JOSEPH EVANS P. MacNalty, Esq., Secretary, Sub-Committee Inland Transport, Upper Merrice Street, Dublin.

Prospect House, Greystones, 23rd September, 1918. DEAR SEE SECUL beg to carbon a supplemental statement of facts in connection with the Poline Industry of Greestones, and of the present condition and history of the Harbour now necless. This represents the lines of evidence which the witnesses are prepared to offer

GREYSTONES PIER.

P. MacNulty, Esq., Secretary, Sub-Counstites on Inland Treasport.

SUPPLEMENTAL STATEMENT of facts relating to the above Forty-five years and Groystones possessed only the short granite pior, the remains of which are to be.

This accommodated coaling schooners which could lie alongside in ample water at low tide. Unloading and boding were carried on by a hand trans fixed on the pits.

The inhermen of Greystones and its vicinity owned and messed about 20 large fishing boots, each of

six ions, capable of sisting at a distance and keeping at sea in heavy weather for extended crusses. This industry was for many years an active one, and the source of the growth of the original town on the

La Touche Estate. These heats, requiring about 30 men to had up ashore were lamoired from a narrow In contact Patient. These comes regarding access of our contact years were contact to the component of the c \$3,500 worth of fish as the resulting esteh.

(b) Supplemental Statement.

In the year 1886 the present Pier and North Groyne were built under the ampires of the Commissioners of Public Works. So much of the mong advanced as was to be repaid by the Grand Juny was met by a specially authorized rate. By Order in Council the Harbour and the Pice became venced in the (now) County Council of Wicklow. But for want of provision as regards titled action said of solidity and strength of construction of the piers the Harbour would have met all the wants of the locality. The fishing industry would have been instered and encouraged; vessels could (and notil recent years

did) come with coal, sement, bricks, and other eargons to Greystones.

Prop timber was leaded here for shipping class here also.

Had the Harbour existed as designed and as at first constructed, timber, locally felled, could have been shipped to other places. Building materials, &c., might have been saved the expense of mil carriage

How do matters stand?

The narrow steep to basel is gone, owing to the tidal action peculiar to this hay; the foreshore from Beay Head to Greystones is heap-up at the latter neighbourhood. Even during the work, and without any doubt due to it, shingle and sand, crushing down the north groyne in its murch, and proving it as if it

Thousands of tens of these materials occupy the lanching-places of the former boats. Where deep water was then near to these last, a boy can wade at low water to the new quay-cide to-day. There is not water in the harbour to launch one of the harring fleet which flourished forty years ago.

No seal or eargo reboostes out its at the easy; the vessel must take the ground at early ohl, and the debris of the decaying pier wall would jump a leak in any bottom with any each of the sea. offering of the decaying new wait would jump a make in any protect was some versu to kee see. The main period is going fail, the extensive properties from the rest by occlosing, it mind soos fall away. The main period is going fail, the extensive period for our state, and the floor has been larms up. Carte can no longer man along its. Mooring collinels now been swept away; the piece is a cutin, the corted groups in

Intended to stay what had been foreted by local opinion, viz., the sifting southwards, it has long yielded to this pressure and has collapsed. Had a more stable construction taken his place and here are recited some lew hundred rards north of it, extending to twice its length, it as believed that the sit would have been cerried nost the harbour mouth by the provalent side current monthwards, so what was introduct to be

remedial has been altogether destructive. The fishing industry has been for many years past destroyed. To exemplify this, a local owner, whose grandfather had built many or most of the beats already referred to, built a similar vessel in the attempt granulature has one many or none is too seem arrangy enterves to, once a summy vessel in the attempt to re-establish herring fishing at Greystones. His venture inded, the could not lie in safety in the harbour, also could not be hanked up or be relaunabed as in earlier wars could have been done. He was forced to not

her at a great loss. The large number of herrings on this coast during the summer has led the few remaining flabermen

to make their only available effort. With rowing boats, five or six in number, they have set out each evening with most substantial results Hundreds of pounds worth of fish have been someout, and by means of motor wans they were cambled to get

This work can only be carried out in very five weather. The boats are having asshore each morning entailing grass labour and considerable danger. Sasing boots of considerable size could effect a four-field result. Some fifty years ago four sebocades owned by local traders carried cargoes to and from Greystones. Since that time until two years ago there have been always two or three of such class of vessels opining and going with cargots mainly of cost. The area supplied from this centre extended to many saughbouring

villages and districts.

To sum up, seaborne traffic to Greystones has become non-existent. A valuable industry—one of great importance to our food supply-hardly exists, while potential plenty offers itself. No commodity has any

As an example of the loss to local trade resulting from the present condition of things, the owner of the last locally-owned schooner has been forced to ake his coal to Wickley, cert it to the relivery, pay mil freight to Greystones, and again care it here. The only remedies espable of meeting the difficulty are : to dredge out the harbour, restore the main per, build a north groyne at a more northerly noist and projecting beyond the south (main) user

II - WICKLOW HARBOUR

Documents submitted on 18th October, 1918, by the Town Clerk, Wicklow.

(a)-STATEMENT RELATIVE TO THE DEVELOPMENT AND ECCUPARKY OF WICELOW HARDOUR

A Committee consisting of representatives of merchant shipping and other local interests, specially formed by the Urban Committee on Inturel Transport some reasons why and how, in their equinton, the part and Harbour of Washlow should not could be utilized in connection with any comprehensive scheme of Island Transport improvement and This harbour is settante on the South-Rast Cores of Ireland about thirty miles south of the port of

Cardiff, Swanses, Ayr, Millon, etc.

adequate ablumer facilities.

it is connected by a time with the Dublin and South-Enstern Enliney which passes through the town of Windslow, which the directly connected as the Dublin Wassfrodt, Warderland The satern districts of Dunity Windslow are this in muscul resources. Silver and Lead times at Gine Addogsi, distant solut towler miles, were formatly operated on a lange south, and it is an witness tissue were resurred the Harbour at Windslow offices the only onlike for the shipment of the output there-from.

dalongi, dictant about twelve unites, were formarly operated on a large scale, and if at any time these operations were removed the Harbour at Wichdow offices the only omits for the abipment of the outpoin threefrom.

The same observations apply with even greater force to the Copper, Sulpher and Ochre mines as Ballyrappia. These latter mines at Avex, Connetes and Enlipsappia are at present being operated in an experimental manner by the Government, and are assults of withfirst a his contrast of cretory.

Constructions and the second s

AMOUNT EXPENDED ON THE CONSTRUCTION OF WICKLOW HARMOUN.

East Pie	r and Br	sak	water								£17.000
Now No	rth Groy	Do	and F	break	ore P	rotect	šon.	Works			29,500
Now Sc	Wati '						-				7,000
								7	otal		£113.500

From the above figures the Sub-Committee will observe that the Harbour of Wicklow has cost the ratepare his sum of £11,500, being quiraleast to a rate of 5s ±4d. in the 3, and under these retremutances without Government help in impossible for the Harbour Ambievines to earry out those much necks

improvements.
Thus improvements sensist of dredging the Harbors, which has sifted up considerably during the past three years. The releasibility of the quay walls, which are at precent in a very unstable condition. Also the provision of Travelling Lose. Crean, and the tearnersy connoting the harbors with the local Goods Stores

provinces of the reason, those between the date destroyers consisting the first beautiful to the control of the

HENRY J. MACPHAIL,

Town Hall, Wieldow,
18th October, 1918.

(8)—Estimate of the Anogny Required to Results Quay Wales, Directing, Dynesism of Transvay and Providing Charge

Rebuilding Quay	W-D-									£21,000
Dredging -	in other	- 1								7,000
Diversion of Tran	way -						- 1	- 1		4.000
Fravelling Loco (rane -									2,000
								T	otal	£34,000
		(c)	—Н.	KTOU	Lo	ANS.				

Lacoush Marigagi Loss
Lans stathered by Weeklow Harbour Advances, Ana 1927 (do d.
61 Vic. Chap. 50)
Loss sattlered by Four and Harbour Ordere Condensation (Na.
9) Ana 1927
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Lossombe Mortgage now convected into Wicklow (Town) Stock was originally horrowed for Harbour improvements under Treasury Sanction and the Town has been paying principal and interest on £12,000 The Town of Wicklow is also charged with £2,500 as a separate item of the £60,000 Loss, addition pay the full rate to the Wickley County Council on the behave, £62,500, to which the five Baronies

The £5,000 Loan is charged on the Harbour revenue which if not sufficient is payable by the Town. Also the Town is responsible for a Loan of £1,000, and in addition pays the annual contribution of £33 6s 6d towards the upkeep of Foreshore Works

THE TOWN RAYS FOR HARBOUR PURPOSES.

			4 2		
Luscomba Mortgage			1 6	in c	hi
Special Charge pursuant to Wicklew Harbour Advances	Acs		- 4		
Hate gayable in County Conneil Demand - Loan presents to No. 3 Act, 1907, Principal and Interest	2336	6: 94	3		,
per annum, equivalent to a rate of Principal and Interest on Loan of \$1,000 and occupa-	men	ribertion	1 0		
towards Foreshore World			2	, »	

Valuation of Wicklew Urban District for Harbour and Public .66,420 15 0

One penny in the £ stoduces £ 26 15 0 The Abstracts of the Accounts of the Wicklow Harbour Communicaters for the peat five years will show that there was no surgitus revenue available to go in relief of the rates of the contributing parties The revenue from Harbour Duce and Tolls is approximately about £750 per annum and decreasing owing to the warn of facilities.

HE-ARKLOW HABOUR.

Engineers' Reports submitted on 12th Outober, 1918, by Mr. Janes Doyle, Secretary to Arklow Harbons

(a)—Copy of Report by Sir John Pursur Griffith, M.Inst.C.E., on damage to the South Part.

To the Chairman and Mombers of the Arklow Harbour Commission,

In compliance with your desire that I should visit Arklow Herbour and report to you on the condition of the South Pier, as conveyed to me by your Secretary in he letter of the 18th February, and also by Mr. Charles D. Uliver, M.Inst.C.E. I have the honour to report that I have violed Arkhow twice and inspected the damage to the South Picc. Through the courtopy of the Board of Public Works for Ireland and the Department of Agriculture

2. Through the contrast or too Bourd of Pailine Worlds for Irribation and that Department of Agriculture and Tabulatial Interestical I Neve Beam in the to impact a man of the Generation scheme, the best contrastion and an artificial and the Contrastion and the forest the Contrastion of the Contrastical Contrastical Contrastical Contrastical Pailine and Contrastical Contrastical Pailine and Section Se

their diver 4. To exist the Board in coming to a clear understanding of the cause of the damage and the steps which I consider necessary for them to take to save the pice from further mjury, I would refer briefly to the

history of the present South Pier The South Pits was constructed under the powers of the Arklow Harbour Act, 1883, and under the lirection of the Board of Public Works, and the supervision of their Chief Engineer, the late Mr. Robe. Manning, M Inst.C.E.

In December, 1882, a contract was entered into with Mr. K. MacDonald, of Pairlie, Greensch, for its completion by the 31st August, 1885, at a cost of £25,651 The work proceeded slowly, and the winter storms of 1884-85 did considerable damage to the seaward end of the unfinished part by sourring away the send from under the foundation blocks. This was followed by considerable settlement and displacement of the block work

At the time of the damage the pier had been carried some 333 feet senward from the root of the At the time of the currings use previous costs across said for features are uncorrect or the pro-port, which is marked by the lime fit. No of the accommanging plan. In consequence of this dramage is was desired to lay a byter of rubble over the site of the remaining parties of the piny still to be first, categories are the properties of the properties of the properties of the piny still to be first,

Sira

5. In 1883, in consequences of some swittercost in the foundations of the whard wall, due to a entirous pilous in the circumstance and in the constraint of the circumstance and the circumstance and the circumstance are sufficiently as the circumstance are circumstance and the whole of the weeks constructed by the Board of Western under the Arthew Hinbour Art were transferred to the Arthew Hinbour Arthew Hinbour Arthew Arthew Hinbour Ar

Commissioners on the 18th of February, 1889.

10. In December, 1889, Mr. Minning visited the harbour and found that the Harbour Commissioners

The Political Parts on anomary masses we entered in political to the accuracy commenced and the political parts of the Backer Commissioner theorigh. The Parts to the Backer Commissioner theorigh, the Taylor, the the Theories (Pappennichler Works, within this behavior and found that 10 kept of more presents for present, the found of the activation of the second that the parts of the present of the parts of the

11. I have no avidence that the Commissioners removed more of the agent than reported by Mr. Diel, to they do not appear to have taken any stope to restore the agent. On my first viet. I most confess to having been concepts punished by the authentic which had taken histe, but the decuments which had taken histe, but the decuments which is also become the decuments which is also become the decument which had taken histe, but the decuments which is also become the decuments which is a subsequently had the opportunity of examining to globals with the confirmation by the examination of the

sussequency and the opportunity of examining, together with the communition by the examination of the diver, left to room for done as to the cause of the diamage.

12. For the first 100 feet the South Plar blocks were laid on the rubb's delvis of the old pice destroyed

1. A revised active to the abolise per about were and so too reads a contract in day por outcomes.

1. A revised active to the abolise per about were and so too reads a contract in day por outcomes.

1. A revised active to the newly than extension was considen it likely, while the to be applied of the present about the per contract layer. We can person of these was removed the when't was a gothe exposed to the reason danger of autitomats, and all the everteened such in lower power points to as certain amount of autitations in the present the contract person and the everteened active points and the event amount of the present the present the contract person and the present the person and the perso

or the changed wall server of the points of which is rever water surphages as the fourth Text. In the result of the part of the policy of the change of the

word 11.0 confirms in the destroice, skilly fearner.

The confirms of the destroice skilly fearner was the week, respect the superinstance, and mass and result the fearner words. It is assure recommends the flatheur Consuminemen to mellutate the sand would abstract them to be actisfied by asserting the wall so that ferritor suttlement may be prevented and the work made which confidencing secure to fall its function as a benealestar and advertiseing self for the irre for. If it were a will intuited as a cary for wavel mellutated as a cary for two destroice order course would have to be adopted. The Seath position of the confidence of t

easures of in reconstruction.

If I beginners to be supported by the steps which I consider measures to step further rectainment and the chapter of solitons of this period on the whard wall. This first step is to resize the agree in the root of the wall where it was created, and the question to be deaded in these can this to done in the note different wall where it was created, and the question to the note of thereton wall where it was created, and the question which was considered to the state of the step of the state of the state

are within the olispoids water large his spoon of the pier.

In Two concess against desaulters. That to excess the agent hy happ fitted with concerts as in the 10. Two concess against the special properties of the piece of the

17. The restricted of the spars is the samer bounded in the next agent tour of the volt. Out of the contract of the spars is the same bounded of the next agent tour of the volt of the same of the

200

motion of concete week lead to the easiling out of the sensets bearing only sand or grovel. The chippings on the term was the name of the piles, and only into seaper if the rights are grapping, dead with a concete follows. The blooks will thut be solidly supported, within a fair of further several terms of the control of the realized of the proof, which is statisment in the realizedy of the party, I would suggest that little be done to to make it proves an obstruction to trailly or dangerous to podestrians. The parings between the conies, and they concerts surface in the neighbourhood of the damaged portion of the wall might be fulled up with

it preves an destination to studie of dangenous to podestrians. The parting between the costing and the concrete armines in the neighborhood of the damaged parties of the well might be filled up with controller.

30. It has been suggested that the developing done in the channel may have been the cause of the damage. I have very out-fully examined the developing roturns and the counciling made from time to time are the developing was beginn, and have had the opportunity of examining the very intelligent before of the

dredger. I am quite subsified dats the drauge to the South Pers cannot be attributed to the drauge to quartitions for the improvement of the channel.

21. Alone 35 feet from the end of the piers a block is reported as missing in the third course below low water. Albrough it seems heldy that this was displaced several years ago, yet I think it would be described to try and does it up with control bedge view.

to QF alls find the green conserve using ears.

Our plan for the green conserve using ears.

While projects not be channed to see the set of the Next Green. It has been set that it is use in a benchmark while project, not the channed active in our left of the Next Green. From this point of view it is use in a benchmark of the contract of the set of the same up the channel show gin Next Green. From this point of view it may be the set of the set of

are attentily of two formed that feeding course of have in the to gauge three distance from it. It had control to the late of the distance from it. It had control to the thick feeding made abovery, the credit relative to the best feed to the control to the thick feeding reason class of the footing course. They would be distanced would be consistent than the poles marking the north and south above of the chancel which were recorded for the guilatine of the dredger in its work.

3. It has one of dring the user kerdered to in this report must necessarily be high for the amount to be

dens, as it has to be almost all done by direct. I estimate the respection in about 5500 inclusive of diving goar.

Your obedient servent,

JOHN P. GRIFFITH, M. Link C.E.
23 May, 1918.

ADELOW HARDOUR BEFAIRS.

WASSE OF VOLKMEN. WAT Day. Per Work

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Determine two st 5 0 4 10 0

Lebotemen, three at 5 0 4 10 0

Received.

Total \$25.10 0 It is probable that this gang could somplete five lineal fees of filling joints per day, or from 25 to 30 feet per week, conting, say 32 per hand force of joints.

Robble footing in place, 150 tons at £1 per ton in place.
Filling joints with bage of concests and quarry oblighings
Materials for filling joints, seeking, common, gravel, sand, quarry chappings, staging and tools

Contingencies 10%

(8).—Copy of Report by Mr. Alfred D. Delap, M.Inst.C.E., on North Pfer-head. Northern Rank Chambers, 113, Grafton Street,

The Sourcery,
Arklow Harbour Commission,
Harbour Office.

DEER SITE,

In assorthance with your instructions contained in your latter for Moromber 19th, and in previous
conversagations, we made our underwater inspection of the Atthew North Fernbard potentialy, and beg to
proper the programment of the property of the Atthew North Fernbard potentialy, and beg to
proper the programment of the property of the Atthew North Fernbard potentialy, and
mention as to the orientation so that a they could be sentential from abover vater, and is no a class titles as

We understand that the points on which information was to be obtained were, first, the condition of the timber work; second, the condition of the concrete work; and, third, the level of the bettern of the concrete work relative to the present level of the bottom.

We understand from Mr. Oliver that the present level of the bottom is very considerably lower than it formerly was, baving been greatly lowered by the dredging of the last five or six years, but that its present level is not by any means as low so it has been, the storms of this autumn having to some extent

The present conditions are not, therefore, as favourable as they might have been for getting information on the third point, i.e., as to the depth at which the original course of blocks was had, and we would suppose that if further dradings about he arried out, and if that or natural causes should have the and level to any considerable extent, a further inspection would be desarable, and positive information on thus

The recently for positive information on this point, as will be seen, depends on the method your Commistences adopt to make the work scorer, and we are of the opinion that unless either dyadging or natural owner are expected to lower the bottom at this point to a very considerable extens, that no further

information will be recessory bound what is contained in this report. First, as to the condition of the timber work

We seemd at come that all the timber work, which is produced, in very body eaten away by worm from quite close to the average water line down to the present sand level. As one level, some 5 feet over present sand level, this crosion is decidedly were than lower down, many of the piles being exten practically right through at this point, and from what Mr. Oliver calls us this corresponds with the former and bord; but, agent from this particular section, the whole piles down to stand level are esten away very bally, both by the small worm Limeria Tembrans, which attacks exposed surfaces only, and only as a rule corn down to send lovel, and by the large chip worm Teredo Nevalis, which estacks the beart of the timber and will go down in the heart of the timber far below the level of the bottom.

Since the lower 5 or 6 fact of these piles has only been exposed by the sand for the past few years and as Limeria has done a very great deal of damage on this part of the piles, we conclude that much of the damage caused by both worms has been quite rooms, and that their activity has greatly developed in the last few years.

It is quite clear that as things are now no ordinary timber in this neighbourhood can be counted on to have a long life below water, and it is countily clear that the timber at present there has practically reached Seesylle, as to the condition of the concrete work,

The coursels work of the pier proper on only be reached through the interations of the timber sheet pfling, and could not be reached at all except for the ecosion of the pflus which has to that extent widened these spaces. In so far we could thus be assertained this concrete is in perfect order, the face clear and hard,

and apparently no appreciable settlement has taken place. The abor ng course where present, and the toe of blocks beyond the end of the pier steelf, is composed of large blocks put in at random; these are at all angles and levels, some of them are broken, and they are quite

and have been allowed to settle into any position as the sand beneath them soomed on. Thirdle, as to the level of the bottom of the contrate of the pier proper relative to present and level To ascordain this we very carefully probed with an iron har between the sheet piles to the face of concrete, and followed this down to the sand level, and as far below it as one can be sure of results. T With

the exception of one doubtful point, to which we will refer later, we estimized ourselves that at all points the be seen from our conclusion we do not think that until considerable further deepening of the water at this

noint is anticipated any further information on this point is necessary As regards the doubtful point mentioned above, this is about bull-way across the end of the previoud

to slude, but which is too narrow to allow of stooping when engandered by the diving year. Here we were able to follow down the face of the block work of the pier to said level, but a few maker below this apparently the free ceased, and it may be that this was the lower limit of the block, but owing to the externo difficulty of movement it was not possible to asserts in whether this was only due to some sceidental joint of fracting

of the block or its true lower edge. We take it that the whole object of this report is to enable a decision to be come to as to what work is necessary to make the previoud oute serum.

In our opinion there is no fear of settlement or fathere unless or until the present bottom level is inwared, as of course it may be by dredging or by natural scorning away of the sand. We believe that even if very considerable despening is contemplated or anticipated that the whole of the structure can be made quite sale by comparatively simple and inexpensive protection, such protection taking the shape of a rubble mound deposited and maintained in such a manner as to insure the bottom level remaining alone-ole the

piec at its present level. Heavy angular rubble abouid be tipped all wand the mer-head in a bank that need not extend more for the smaller stones be used there will be no four of these seavelling to where they will cause obstruction. The crevices and manne between the pier proper and the shoeing blocks, and those between the shoeing blocks themselves, should all be filled and kept filled with sustable ared angular stones.

The timber delphin or platform over the mans of blocks at the end of the pier will, of source, sheetly go, as the distriction of the timber is a matter of a comparatively short time, and some protection here will

be required to keep shipping of this point. be required to meep suppuse or unit poun.

The course that would be our option be of the greatest possible service to the Port would be to extend this North Pier tall it overlapped the South Pier, and family to wish a proper head and light, but as we presume this is not immediately practicable we consider that some structure moderate in price which would not interfere with future extension would be the right thing to adopt for the present mode.

It is probable that a structure composed of 3 or 1 remierced concerts piles, driven deeply into the bottom, just beyond the end of the mouton blocks, braced strongly above water level, and properly feedered to protect shipping, would be the observes and heet that could be adopted. A light could be carried by thee, and it could be reached from the present pier-head by a light

gangway.

We trust we have in this report fully covered the points which your Commissioners wished us to We see, Sir.

Yours faithfully, DELAP AND WALLER (Signed) Alered D. Dillar.

(c).—Copy of Esport, dated 28th September, 1917, by Mr. J. Chaloner Smith, M.Inst.C.E.I., Assistant Engineer. Board of Works, Ireland, on the condition of Arklow Harbons.

THE ENGINEER,

As directed, I proceeded to Arklow, and upon the 24th, 25th and 24th instant was ongaged in taking sometings and in making a diver's examination of the wharf wall foundations of the North Groyne and the South Pier, where some rooms damage has been reported to have occurred by the Department of Agriculture, and hag to report so follows .-

NORTH GROVNE

A close and exceful examination by the diver of the whole length of the wharf feetings shows that at no point has there been any undercutting. At no paint when proling with a har was he also to discover the bed of the foundation blocks, so that it may be taken as certain that these blocks and the sheet piling have been set and driven at the least to the levels indicated on the working plane of the late Mr. Strype, who was the Engineer for the countraction of the North Groyne.

Stryps, who was be fingineer for the constitution of the Notes veryon.

The diver reports that the whole bulk below pling around the preprehend and the whole bulk piles in the timber delptin which covers a mass of polined blobbs and rubbles thrown as to protect the groy so head from soon recombinably asked in by the worm and wasted blooder the level of low water. In no case could not the protection of the water than the case could not the protection of the p be find any exposure of the pile points, and in my opinion the movement of three piles which can be seen se due to the defective state of the wallings and straps, which should held their heads setup by but which do not do so. From the west sole of the north face of the groyne-head there is a length of about 10 fast of

dask. From the wars spir of the nazist, has of the group-shoot time is a length of show 10 for and 10 for 10 fo

to depose this rubble to line or level, so that it lies pilled in hears as thrown out of a morred barge in some places, and leaving gaps between where there is practically none Rubble enough has been deposited to make a good and efficient protecting apron all along the faces, but

owing to the manner in which it has been deposited fully one-third of the length of the face derives no protection from it whatever, Under the circumstances the slight opening of the joint between the solid head and the wharf portion in

not to be wondered as. All that seems to use to be necessary in this case is to renew the about piling where it has been carried All these sames to use to se accessary in one case is to renew the abest piling where it has been carried away, renew the factorings of the top waling so as to prevent the awaying of the pile tops in the current, and

to level off the irregularities in the deposited rubble, eather by spreading the present hosps or depositing fresh material in the bollows. The morth side of the groyne and sea face of the hand are protected all along by a heavy agroun of large blooks pellocell and rubble, so that there is not much likelihood of any undercuting along those lengths.

The finisher jetty or diskin at the hoad is nearly to cover the site of the polimuli above lying off the bad of the groyse. The statility of the groyse in no way depends upon it, and is a three purely no amounts and a conventione to resolve if the yield-heads over proparty secured to editent malings it would

probably have many years of life yet, even allowing for the worm-saten state of the gifts.

Bren as matters are in the case of the North Grayne I do not consider that there is any probability of its collapse either in the near or remote future.

no settings electron in one near or remove Leaver.

As to the proposed extension of the North Groyna, it should be understood that this would form a new
year for the present Sunda, not in any way called for by the condition of the present North Groyne. It is
further a question mething to be dealt with with the tentone care, as any axistension nearwards of the groyne would almost sertainly have the effect of diverting heavy sees up the river which now run past its head and spend themselves on the beach to the north. It was on this account that the North Grovne was stought in he present position. If in the interests of shopping it is ever considered descrable to extend it it should be extended as an open structure.

SOUTH PIER

ted image digitised by the University of Southernoton Library Digitisation Unit

Some damage which may become serious has occurred to the wharf wall of the South Pier a short distance sawards of the first fight of steps near the per root. The large concrete blacks forming the wall between the bettem and a little above mean tide level have dropped down through underenting, she forwards for nearly 2 feet, and separated from the concrete in aim wall above them. In fact, the cettlement ban

caused a layer of the controte in situ to be fractured and dragged down with the blocks. A length of about 30 feet of the wharf wall is thus damaged at present, but it is probable that other lengths may be damaged in

Before the play was completed originally in about 1887 there was a protecting apren of bag blocks, S feet by 4 feet by 2 feet, land as a protection from secur against the lowest or foundation blocks, and this

Owing to the constant dredging which has been carried on in the channel for some years past, and perhans to some extent owing to exceptionally heavy floods in the river, some lengths of the protecting apron permaps to some extense owing to exceptionary many means in our tives, come singless of the producing have been underent, and forward away from the what of wall blocks and broken up in some cases or talted up in others, but in both depriving the wharf wall foundations of their protection. Heavy soon Heavy scouting gots on where those fallings down and forward shifts of the agree have occurred, owing to the strong obb and

fined currents eddying and swiring in the hollows thus formed, which results in the underenting and In other phoes the outer end of the apron is undercut, but it has not yet dropped down and uncovered

the whari wall blocks, although this might very shortly occur. Thus the foundation blocks under the landward flight of steps are badly undertut now, but have not yet dropped down

Going seawards at a point about 50 feet reawards of the Mark M.N. at the pier root the apron is broken up for a short length and the foundation bloods of the wall have self-flower about both story of the approximation of the sales and the self-flower of the self-flowe Botween will, but the latter has not as yet been underest.

At 314 feet from M.N. there is a slight disturbance of the apron through underesting and the same at

350 foot from M.N. At 262 feet the agree has been undercut for a short length and dropped 2 fast balow At 350 feet seawards of M.N. the appear is all right, but there is inciplent undercenting of its outer and

which extends to 370 fee At 382 feet from M.N. there is a drop down and fracture of about 5 feet of the appear, which unsovers

the foundation blocks of the whari wall, and at 430 feet from M.N. there is an almost similar drop down and fracture of the same rise, also uncovering the foundation blooks of the wall. At \$35 feet from M. N. there is an 8-foot wide gap in the agron, also uncovering the wall foundation, and from this point onwards round the head the apron appears all right

At 560 feet from M.N. one of the blocks of the secund course, about 4 feet 6 mohes by 3 feet 3 inches by 8 fast, is missing having been probably started out of the place its some storm, and it must be jurg assumed as a probably carboided in the said. The diver looked for it but could not see it anywhere, but it should certainly be found and removed as it might be dangerous if it was lying in the fairway. reports that the cavity left by the block did not look as if it has been swept out very recently able to send the divor all round the past-head and sea aids on account of the bravy rus, but from what he was able to see and from what could be seen from above the bead and see wall blocks appear to be all right. In the course of years the rubble bearing of the South Pier has settled down and consolidated, leaving a void between its uppur surface and the unionisis of the wharf pavement. The whari pavement, however,

shows sizes of dropping down into the bollow and of breaking up, probably helped by the weight of heavy Generally speaking, the wharf wall, except at the bed place near the first steps, is true to line and batter,

but at the bad spot the cope arms has undoubtedly moved forward a little and no time should be lost in its The clarence to the wharf well, so far as I can learn locally, is not now but has been going on for years, but the heavy river fleed in Acques lost made is a little worse. The Secretary to the Harbon, Mr. Doyle, told me that the damage at the first flight of stope, the worst place as yet, had been there for years and this was confined by the locations, who and it had been there for years for that the August flood had made it.

The main cause of the damage, apart from the effects of exceptional river floods coinciding with experimently low rades, which in any once must be a rare charge, is undoubselly the continuous dredging in

in passes.

If the speen had not been put in originally I have little donte but that the dredging and scouring combined would have brought down a very considerable length of the wherf wall of the proc. The depth for the channel as shown on the plan of the D.A. and T.I. for their Arklow scheme is 9 feet at L.W.O.S.T., and the limit of the channel is shown 25 feet away from the South Pier wharf wall

at L. W. O. S. L., man nor small of the change is made in the control of the control of the South Fort What range Owing to the dreighing the depths at present 30 feet out from the coping of the South Fort What range from between 11 and 12 feet below L. W.O.S.T., and exactly opposite the bad break at the landward steps Along the centre line of the channel opposite the South Plar and all along the length the depth is

13 feet below L.W.O.S.T., or 4 feet more than was originally contemplated. All she damage which has occurred so far, either to the North Groyne or the South Pier, is in my opinion due to the neglect of the Harbour Board to maintain the existing works and also from the change being kept dredged out to a greater depth than was consistent with their safety. (Intld.) J. C. S. 28.9 17.

> N .- KINSALE HARBOUR, TREAM DISTRICT COUNCIL OFFICE.

KYNKALE, 19th Scolomber, 1918. DEAR SEE. The Urban District Council and the Harbour Commissioners of Kinsule understood that your Committee are taking evidence in connection with the development of the South Coast Fisheries, and they wish me to ascertain whether an opportunity will be affected them of putting before the Committee some losts in connection with the neglected state of the Fishenes off this Harbour owing to the want of Government assistance.

The vates are many and would health the previous of specialize faining reach and gast, the extension of the Eulitrys to deep vortice—it is a special point of the logs of a hill all out this gay from the special the extension of the Ferr hand so as to previse a deep vater both, the Despling of the Harborr and the improvement of the water gapty for corregion produced, etc. The despecial products assessment in connection with the Kundel Ferr Doth which may interest the members of your factorization.

The Secretary, Inland Transport Sub Committee, Dublin

(6)-KINSALE PIER DEST.

Legislature provision having been previously made for the creation of a Plor at Kinsake, the local Bodies took up the project in the early Eightee with a view to developing the fishing industry which was then at its begints.

The Board of Weeks accepted a tender of £18,979 for the creation of the Ever and estimated that the purchase of grivate rights would absorb £3,176 and incidental expenses £1,000, making a total cast d £18,000 making a total cast of £18,000 making a

Board out of accumulated frauth, a boar of \$5,500 at 0 per cota, repopsible in \$2 years, and the estimated behavior of short \$1,000 was secured by the dottes Board of the Draw and Historic Commissioners for this assumes and say further sum boar might be required for the execution of the work.

The Contratory of into the time of the contraction of the work was almost a sum of the work and some maccountably release.

The Contratory. The work was allowed to drug along for more than size years and the Part was not handed over completed until June, 1889, though the that root commissioners were obligated to such as opportunity to the part of the part o

for principal and interest at Sec. of the loan as from 1885, bodies faring the incressed revenue that would have been saids by the Fire. From 1885 to 1889 during the progress of the work be tharborr Board paid 1,500 for interest above, they in one year (1887) paing 2618 4. C. the principal and interest. Sec. 1889 during the progress of the work be tharborr Board paid 1,500 for interest above, they in one year (1887) paing 2618 4. C. the principal and interest.

Shown at length the work was completed, the Board of Works presented a full for £21,851 id.—

Shown as bright the work was completed, the Board of Works presented a full for £21,851 id.—

Shown as bright the work was completed, the Board of Works presented a full for £21,851 id.—

Shown as bright the work was completed.

As regards these items it should be noted that—

(1) The ingregated cost of heidding was due modely to the unavalented server of the first

 The increased cont of heidling was due mainly to the unexplained release of the first Contented surface invented by the Board of Works for private rights which the Harbour Commissioner's Volumetrily by the Board of Works for private rights which the Harbour Commissioner's Volum with board incombridge shared at £610.

(3) The next of the lightput with the encoded Contractors might have been recited: The Harbour Commissioners declined liability for this westage and for some years deveded their energies to extracting more explanates from the Board of Wesle, but the latter could not even did not account for the retireming more explanates through the content beyond a sum of .8931 alleged to be spent as measured beyond a sum of .8931 alleged to be spent as measured vertex, leaving a sum of .8042 for more state of the content o

covers serving a sour occus across are on an exect through the incompleting of that listen, quart free the bases interred by the dulty in completing the next. Contribution, the Local Bodies in the force is all the local transfer of the contribution of the Local Bodies in the force is believed at the local Bodies in the force is believed at the local Bodies in the force is believed at the local Bodies in the force is believed at the local Bodies in the force is believed at all Allows and the local Bodies and

Authories never town rooms steer mawar to meet even the interest on the large dick that was run up against them. Instead of lightlening the burshes, he Board of Wards natered large processing in 1831, and Salysialities would be not become the latter of time Board against the Town Continuis cases and make them laths in the In 1830 is made to the latter of time Board against the Town Continuis cases and make them laths in the In 1830 is made and the latter of the latter of

About the same time the Harborn Based is order to need the Harborn beard is great own, a Provisional Order to increase the Harborn Based is order to need the Harborn Based, expending on sky, with the results that while it gave a temperary increase in the Revenue, it hashmed the decay of the falling influency. It corner into operation in 1898, after which the great manual Bovenue, read over 2000, but the amount sinal-specially declined and the

average for the last five years did not entered 2020.

About 1890 the rate of interest, 5 per cont., was reduced to 4 per cent., and in 1897 a long-dukyed installment of justice was at length given when a sum of £1,000 was waped of the dubt and period of superparent extended by your years.

Under the Lood to-oretiment Act, 1992, the Urban Cannell got a remission freen the Local Taxatac Accounted that the extense of the Superbal Elace over did in the A. Taking the everyers Second Date until the

Ascented that the extent of this Spoids Risko over del. in the s.t. Taking the everage Spoids Risko paid by the United United United Science and example the regime would be marrily equivalent to del. in the d-above \$150 sets on that burit.

Finals the first regarantes ever made in 1885 the Harbour and Town have paid altogether £14,515 fee straight and interest at fast of the original boan of £11,392 fee 1d (unser reduced to £10,502 15s. 1d.)

9,178

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and they also paid for Receiver's ions and law costs about £1,000. Yet a sum of £4,338 is still claimed by the Burri of Works as the unraid balance of the loan, though the Harbour and Town have these paid £14,513.

The annual principal to pay this off in the remaining 14 years is £336 The present interest at 4 per cent, on debt is

Total for one year

To most thin the average surplus from the Revenue made in the Harbour for the past five years and paid to the Board of Worler has been £270, but as the Revenue has been steadily dechning and the present year in the worst on record owing to the total failure of the fishing industry, we cannot sount on a bigger armual Harbour simples than £150, leaving a seem of about £359 to be met by the town rates, some after taking into account the refund from the Local Taxasion Assems, sevelving an average rote of about 1a. 6d. in the E. The Harbour Revenue is in a precursors state this year. The revenue from all sources during the nine mouths ended September, 1911, amounted to only \$304, as against £444 for the corresponding

during the time months small September [18], assumed usually 2604, as against 4244 for the corresponding grown the Local District, with the months on make the count limiting in regress of the long grown the Local District, with the months on make the count limiting in regress of the long to the continued form of the limiting includes the own rise, must important state. There to energy our recovery works in the electric. During the numer months the new is whenther state— to energy our recovery works in the electric. During the numer months the long is sufficient to the contraction of the working closes in small electrical bed out in the making rates of the town rugs. the Local Medical Officer of Health and the Merical Inspector of the Local Government Board. most argent need is the water supply, the wast of which also militates against the town as a inflitary

main imposed noted in the whilet supply, the west of which also militates against the town as a military, assisting and one-series result, but he Urban Commist cannot size the sizuation with operated by the state of the sizuation of the sizuation of the sizuation of the sizuation which operated by The Local Bodies, therefore, seek some relatifism the originizing and uniquest butther of the Power Debt. They consider that as at all east \$\$0.000 was uniquistibility segmented by the Boxes of Weeks and andy £1,000 sardly remitted, the other £2,000 ought he wried out now, and the remaining £1,538 extended over a longer period at a lower rate of interest. Their object is to reduce the animal payments for principal and interest to a leaser sum than the £150 (Harbour surplus, so as to free the town from the Special Pier Rate (whereby a sum of about £5,465 has been extracted from the rategayers), and to give the Depute City Line (will vary a new to second any to use over extension from the analysis of the rest to the test of the rest within the Harkour useless, to remedy the present defective bothing accommodation or to lighten the most

oppressive dues. To attain this the following concessions would be required :-The reduction of the debt by £2,000 (from £4,538 to £2,388).
 The reduction of the present rate of interest of 6 per cent.

 The extension of the present period of repayment (14 years). TOWN AND HARDOUR OFFICER, KINSALE,

funds for it being granted by the Government.

COOK, BANDON AND SOUTH COAST RAILWAY,

The Secretary,

Irish Sub-Committee to the Select Committee on Inland Transport, Agricultural Department Buildings, Upper Marrion Street, Dublin. Sir,—I am directed to represent to your Committee the momenty for improving the poet of Kunsale by extending the Rulway down to deep water, and thus developing the Harbour and the fishing industry. The present station is on top of a bill more than 150 ft. above the quay level, and is approached by a very steep hitl, up and down which all teaffic has to be carted.

very sleep init, up and oben wines an eerico as to be extrest.

In the year 1888, plant for the extremisin, approved by the Kinsale Harbour Commissioners, were indeed with the Privy Commit, but as three was then no prospect of getting the entire of the estimated cost of £35,000 as a fur grant, the rebeture but to be dufficient. The cost now workly probably be double the amount manual, but in order to develop the Part the Extension is absolutely necessary, and my Directors trust that your Committee will recommend the necessary

> I am, Sir, Your obedient Servant (Signed) R. H. LESLIE,

V .- WESTPORT PORT AND HARBOUR

WESTPORT LODGE. WESTFORT, 8th Oxfoler, 1918.

DEAR STE.-I regret the Members of the Inland Transport Committee who have been seeing some of the Ports and Harbours in the West of Ireland with a view to their development were unable to inspect the Westport Peri and Harbour; therefore, on behalf of the Harbour Commissences, desire to place the following facts before them in the hope of obtaining some financial assistance so as to enable the Peri and Harbour, which is of very considerable assistance to those in the district and surrounding cess, to be knot Under de Wespert Pers and Herborr Art, 1975, Commissioner were appointed to set and have offerende effective for the view in 1824 secondition (1872) trend, increase of the principal configure in 1874, which will be a 1874 trend, increase in 1872 trend, increase in 1872

The working exposure in convertion with the Peet and Harborr have been cot down as far as possible for want of tanks, and our tradegar has not here all the between the top sack through years, which has had a very critical effect on the form and Harborr and Oltamor leading thereta, both of which are gradually gesting sitted up. The services of the Harborr Master and unother hand have told to be disspected with and the payment of our Amistant Sanicary's salary has due to be disspected.

dispensive with and the payment of our Anneard Security's shall per land in the delicred.

In 1916 Generating proposed an expension on an EMAGNO that is contractioned a deep water to a 1916 Generating proposed an expension on an EMAGNO that contractioned a deep water has 20.00. Malway and worked by them, has oring to writers moreone the address, which was a local source of the security of the first transition of the security of the first transition of the security of the first transition of the security o

determined.

From the fasts stand, and the particulars given it is perfectly plain that ording to the loss of revenue as ecosystences of the War, which has completely atopped all dispipat to and from the Part, without necessition of the Complete of the War, which has completely atopped all dispipat to and from the Part, without necessition from Compression the Part will be observed, which will result in a very serious less inside to the dearest and surrounding ones, and suggest that a sum sufficient to enable the dringing of the standard of the Complete of the Complete of the Complete of the Part will be dearly confident for dearest one of the Complete of the Part Will I contains to which I contains the confidence of the Part Will I contains the Complete of the Part Will I contains the Complete of the Part Will I contains the Complete of the Part Will I contains the Part Will I contains

Treating the Members of your Commissee will give the matters mencioned sorious considerables, and treating the Members of your Commissee wo are extended to assistance, and if there is any further information I can alrow them, either the plotter, or by an interview, shall be glid to do all.

Yours truly,
THOMAS RUTTLEDGE,
Chairman Westport Port and Harbour Commissioners.

The Secretary, Inland Transport Committee, Dublin.

COLY RESOLUTION OF WESTFORN HARBOUR COMMISSIONERS—64th APRIL, 1903

"That is the event of the Matties Wells as Emblyn bring hashcook, but Weijspel lacknow comditioned recording bring and that parties and fast in inside their fellow were should be appoint source. It is a subject to the property of the property of the property of the Change I was been consistent of the Change I was for the Change I was found for Embryow with the Change I was found to the Change I was foun

COPT LETTER.

Signal and states by the Westpert Harring Commissioners to firing pour existing the management of the control of the Agad hair, one seems, in entirence to obtaining a portion of the Agad hair, one seems, in entirence to adolating a portion of the Agad hair, one seems, in entirence to adolating a portion of the Agad hair, one where the Agad hair, one which the seems of the Agad hair and t

works contemplated will be of vast importance and benefit to Westport Harbour and to the surrounding district and country generally, and have no doubt that the Government will give the matter their section consideration.

I am, Sir,
Your obedient Servant,
JOSEPH McBRIDS,
Secretary, Westport Harbour Commissions

To the Bight Hon W. H. Long, P.C., Chief Scorelary for Ireland.

for Iroland.

COPY LETTER,
CHIEF SECRETARY'S OFFICE,
DUBLIN CASTLE, 7th December, 1905

Dear Mr. Ruttledge.

When I had the pleasure of meeting you resembly in Dublis, I promised to let you know the conditions at which I might arrive in respon of the works projected at finishlyre.

continues set study angul seven is neapes the week profession flamings, the continues of the study of the stu

and causes of visuapors, overs no suppress quelying size in a convenience and a surject of the control of the c

wolf fegres take it thy one of the second of

VI.—PROPOSED GANAL EXTENSION TO KILCORMAC, KING'S COUNTY.

. (a)
Kilodrmad Town Improvement Committee,
Kilodrmad, King's County,
60 Systems, 1918.

Sir Arthur Shirley Bean, Esq., M.P.

Due Re.—The lower Committee are the electricities are in superment in the little Temperature (In East). The properties of the little Temperature (In East) Temperature (In East). The electricity of the electricity. As algorithm the unique in out from Kloncaus, the especial tent electricity of the electricity of the electricity of the electricity of the electricity. As algorithm the unique in out from the electricity of the elect

and one controld mill.

If it would be agreeable to you to receive one engitteer and a depotation from the Committee, we would be prepared to wait on you any sines you appoint. Linguing you will give our application due consideration.

Yourse, this belief with the line of the control of the

(Signed) P. SCULLY, Hor. Sec.

(0) Estimated Tonnage.

Agricultural Produce hought and stored annually :-

The district also produces a very large supply of possions, and could produce unlimited quantities of turk, while Kilcorano is one of the principal contras of pig production in the county.

| Part |

P.S.—Stone years age the Grand Canal Company constructed an eight-mile extension to the town of Kilbageon in Co. Westmeath (which has a milway within three miles of it), although that town could not show the tearnage detailed above.

INLAND WATER TRANSPORT PACELITIES—KILCORNAO, KING'S COUNTY.

To fasilitate transport to and from Kiltorman, which is at present disconnected from adjoining Raman Adman, it is suggested that a branch sural he preservated from a point on the Grand Const, mar McCattayth, Acadester, in the convalued of Derrycamey, through Longs Bloom, to a goint in the townshall of Derrycamey, through Longs Bloom, to a goint in the townshall of Brand, within one mide of Kiltorman. Its length would be about five miles, but three quartees of a mile of this would be drough Room.

The lovel of Caral at McCartney's Aquedost is 167 O.S.D.; summer level of water in Lough Boom.
177 O.S.D.; and the ground level at Kilangall is 266 O.S.D.
The lead through which the humsels canal would run in morrhard and is now very valuable, only one

public road would have to be exceed, and the preparal would not present any neglecting difficulties.

The Gand would never as area of short 26 sequent melay, the greater private of this area is devected to things farming, and Koloomase is the courte from which most of the products are distributed.

The avenue private to Koloomase is the courte from which most of the products are distributed.

The avenue private to Koloomase is the courte from which most of the products are distributed.

The avenue private to Koloomase is the Grand Gand, product which most offered to the chapter, in Cultimater of the product of the courted of the product of the courted of the

Kileermoo, but goods sent this way to Dublin have 30 miles exter journey over the Tullimore route.

(Signed) T. J. O'Senthrax, A.M.L.C.E.,
Cannot Surveyor.

56k Stylessber, 1918.

King's County.

King's County.

End. 1. Counting of Admiration Counting, Tullanore, 126 Spiceder, 1918.

Bars Str.

I am directed by my Committee to sand you the excised copy of a resolution dealing with the
development of inhand transport facilities, and so ask that your Committee will give the subject thereof due
consideration, and ratify my Committee of the decision on the matter.

irration, and notify my Committee of the decision on the matter.

Yours failtfully,

(Signed)

W. Ronzess.

Transport Sub-Committee for Ireland, Mansion House, Dublin

Resolution

Proposed by Rev. E. O'Rellife, P.P., seconded by the Chairman, and passed manimomity;

(1) "That we have work an attachment than the Government are marking implicits about the Transport
Famillion afficied by the Constant of Parts of Irishand, and receiving engagestics for third development."

(2) That we recomment the sections of the Grand Const. for Klemene detects, which is a flooristic and approximated sector, such fair removed from millings and certain that therefore, the arbitrary locality, presention proposed for the Grand Constant of Constant Constant of Constant Constant of Const

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SELECT COMMITTEE

TRANSPORT

(IRISH SUB-COMMITTEE)

MINUTES OF EVIDENCE

APPENDICES THERETO

STATEMENTS ACCOMPANYING THE SECOND REPORT

IRISH SUB-COMMITTEE

Appointed by the Select Committee on Transport to Investigate and

THE PORTS AND CANALS OF IRELAND.

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OF THE

SELECT COMMITTEE

03

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(IRISH SUB-COMMITTEE.)

SESSION 1918.

Ordered, by The House of Commons, to be Printed, 6th November and 14th November, 1918.

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